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FIGURE 1564

GCCGAGCGATGGGCATCTCTCGGGACAACCTGGCACCAGCGCCGCAAAACCGGGGGCAAGAGAAAGCCCTACCACA
AGAAGCGGAAGTATGAGTTGGAGCGCCAGCTGCCAACACCAAGATTGGCCCCGCGCATCCACACAGTCCGTG
TGCAGGGAATGTTGTACTCGTAAACAAGGATCATCGATGTTGTCTACAATGCATCTAATAATGAGCTGGTTCGT
ACCAAGACCCTGGTGAAGAATTGCATCGTGTCTCATCGACAGCACACCGTGCCGACAGTGGTAAGATGTCCCACTA
CGTGCTGCCCCCTGGGCCGCAAGAAGGGAGCCAAGCTGACTCCTGAGGAAGAAGAGATTTTAAACAAAAACGATT
TAAACAAATTCAGAAGAAATATGATGAAAGGAAAAAGAATGCCAAAATCAGCAGTCTCCTGGAAGAGCAGTTCCA
GCAGGGCAAGCTTCTTGCAATGCATCGCTTCAAGGCCGGGACAGTGTGGCCGAGCAGATGGCTATGTGCTAGAGGG
CAAAGGGTTGGAGTTCTATCTTAGGAAAATCAAGGCCCGGAAAGGCAAATAAATCCTTGTTTTGTCTTCACCCAT
GTAATAAAGGTGTTTATTGTTTTGTTCCC

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FIGURE 1565

CCGAGGCCAAGTCCCGGGCGCTAGCCACCTCCCACCCGCTCTTGGCTCCTCTCCTCTAGGCCGTCGCTTTTCGG
GTTCTCTCATCGCTTCGTCGTTTCGCCAATGTTTGGAGAGAAGGCCAGCAGTCCTTCAGGGAAGATGGGAGGCGAG
GAGAAGCCGATTGGTIGCTGGTGAAGAGAAGCAAAAGGAAGGAGGCCAAAAGAAGAACAAAGAAGGATCTGGAGAT
GGAGGTCGAGCTGAGTTGAATCCTTGGCCTGAATATATTACACACGTCTTGAGATGTATAATATACTAAAAGCA
GAACATGATTCCATTCTGGCAGAAAAGGCAGAAAAGATAGCAAGCCAATTAAAGTCACCTTGGCCTGATGGTAAA
CAGGTTGATGCGGAATCTTGGAAAACCTACACCATATCAAATTGCCTGTGGAATTAGTCAAGGCCTGGCCGACAAC
ACCGTTATTGCTAAAGTAAATAATGTTGTGTGGGACCTGGACCGCCCTCTGGAAGAAGATTGTACCTTGGAGCTT
CTCAAGTTTGAGGATGAGGAAGCTCAGGCAGTGTATTGGCACTCTAGTGCTCACATAATGGGTGAAGCCATGGAA
AGAGTCTATGGTGGATGTTTATGCTACGGTCCGCCAATAGAAAATGGATTCTATTATGACATGTACCTCGAAGAA
GGGGGTGTGTCTAGCAATGATTTCTCTCTCTGGAGGCTTTGTGTAAGAAAATCATTAAAGAAAAACAAGCTTTT
GAAAGACTGGAAGTTAAGAAAGAACTTTACTGGCAATGTTAAGTACAACAAGTTCAAATGCCGGATATTGAAT
GAAAAGGTGAATACTCCAACCTACCACAGTCTATAGATGTGGCCCTTTGATAGATCTCTGCCGGGTCTCATGTT
AGACACACGGGCAAAATTAAGGCTTTAAAAATACACAAAATTCCTCCACGTACTGGGAAGGCAAGCAGATATG
GAGACTCTCCAGAGAATTTATGGCATTTCATTCAGATCTCAAATGTTGAAAGAGTGGGAGAAGTTCCAAGAG
GAAGCTAAAAACCGAGATCATAGGAAAATTGGCAGGGACCAAGAACTATATTTCTTTCATGAACCTAGCCCTGGA
AGTTGCTTTTTCTGCCAAAAGGAGCCTACATTTATAATGCACTTATTGAATTCATTAGGAGCGAATATAGGAAA
AGAGGATTCAGGAGGTAGTCACCCCAACATCTTCAACAGCCGACTCTGGATGACCTCGGGCCACTGGCAGCAC
TACAGCGAGAACATGTTCTCCTTTGAGGTGGAGAAGGAGCTGTTTGGCCTGAAACCCATGAAC TGCCAGGACAC
TGCCCTTATGTTTGATCATCGGCCAAGGTCCTGGCGAGAAGTGCCTCTGCGGCTAGCTGATTTTGGGGTACTTCAT
AGGAACGAGCTGTCTGGAGCACTCACAGGACTCACCCGGGTACGAAGATTCCAACAGGATGATGCTCACATATTC
TGTGCCATGGAGCAGATTGAAGATGAAATAAAAGGTTGTTTGGATTTCTACGTACGGTATATAGCGTATTTGGA
TTTTCTTTAAACTAAACCTTTCTACTCGCCCGGAAAAATTCCTTGGAGATATCGAAGTATGGGATCAAGCTGAG
AAACAACCTGAAAACAGTCTGAATGAATTTGGTGAAGAGTGGGAGTTAAACTCTGGAGATGGAGCTTCTATGGC
CCAAAGATTGACATACAGATTAAAGATGCGATTGGGCGGTACCACCAGTGTGCAACCATCCAGCTGGATTTCAG
TTGCCCATCAGATTTAATCTTACTTATGTAAGCCATGATGGTGATGATAAGAAAAGGCCAGTGATTGTTTCATCGA
GCCATCTTGGGATCAGTGGAAAGAATGATTGCTATCCTCACAGAAAACCTATGGGGGCAAATGGCCCTTTTGGCTG
TCCCTCGCCAGGTAATGGTAGTTCCAGTGGGACCAACCTGTGATGAATATGCCCAAAGGTACGACAACAATTC
CACGATGCCAAATTCATGGCAGACATTGATCTGGATCCAGGCTGTACATTGAATAAAAAGATTGCAATGCACAG
TTAGCACAGTATAACTTCATTTAGTTGTTGGTGAAAAGAGAAAATCAGTGGCACTGTTAATATCCGCACAAGA
GACAATAAGGTCCACGGGGAACGCACCATTTCTGAAACTATCGAGCGGCTACAGCAGCTCAAAGAGTTCCGCGAGC
AAACAGGCAGAAGAAGAATTTAATGAAAAAATTACCCAGATTGGCTCCATGGAAGGAGGAACAGCGTTTCCG
TAAAAATGACTTTGTACTCTGAAAACGTCAATTTATATTGAACCTGGAGGAGTTTGGCAAAGTCTGAATAGGTCA
ACCTGCAGGCGTAACCTATTTTGACCTAGTCAGTTTTTAAACAATGTGCATTTGAAGGAGTTAATTTAAAGAGAG
CCAATAAAATGATTTTACTCATTTCAGTATCTGAGTACTGGAAGTGAAACATGAGGAATGCTTTAGTGTAATGTGG
GAGAACTTTTTTGTAAATTTAATGCAATTGAAAAAGTTTTCAAATTCAATTAAGATAACTAGAATTGGATTATGG
TGTAAT

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FIGURE 1566

MFEEKASSPSGKMGEEKPIGAGEEKQKEGGKKKNKEGSGDGGRAELNPWEYIYTRLEMYNILKAEHDSILA
AEKDSKPIKVTLDPDGKQVDAESWKTPYQIACGISQGLADNTVIAKVNNVVWDLDRPLEEDCTLELLKFEDEEAQ
AVYWHSSAHIMGEAMERVYGGCLCYGPPIENGFFYDMYLEEGGVSSNDFSSLEALCKKIIKEKQAFERLEVKKET
LLAMFKYNKEFKRILNEKVNTPTTIVYRCGPLIDLRCGPHVRHTGKIKALKIHKNSSTYWEGKADMETLQRIYGI
SFPDPKMLKEWEKFQEEAKNRDHRKIGRDQELYFFHELSPGSCFFLPKGAYIYNALIEFIRSEYRKRGFQEVVTP
NIFNSRLWMTSGHWQHYSENMFSEVEKELFALKPMNCPGHCLMFDHRPRSWRELPLRLADFGVLHRNELSGALT
GLTRVRRFQQDDAHIFCAMEQIEDEIKGCLDFLRTVYSVFGFSFKLNLSTRPEKFLGDIENVWDQAEKQLENSLNE
FGEKWELNSGDGAFYGPKIDIIQKDAIGRYHQCATIQLDLQPIRFNLTYVSHDGDGDKRPVIVHRAILGSVERM
IAILTENYGGKWPFWLSPRQVMVVPVGPCTCDEYAQKVRQQFHDQKFMADIDLDPGCTLNKKIRNAQLAQYNFILV
VGEKEKISGTVNIRTRDNKVGERTISETIERLQQKKEFRSKQAEDEF

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FIGURE 1567

GAGCATGGATGATTGGCCAGAAATGAAGAAGAAGTTTGCAGATGTATTTGCAAAGAAGACGAAGGCAGAGTGGTG
TCAAATCTTTGACGGCACAGATGCCTGTGTGACTCCGGTTCTGACTTTTGAGGAGGTTGTTTCATCATGATCACAA
CAAGGAACGGGGCTCGTTTATCACCAGTGAGGAGCAGGACGTGAGCCCCCGCCCTGCACCTCTGCTGTAAACAC
CCCAGCCATCCCTTCTTTCAAAGGGATCCTTTTCATAGGAGAACACACTGAGGAGATACTTGAAGAATTTGGATT
CAGCCGCGAAGAGATTTATCAGCTTAACTCAGATAAAATCATTGAAAGTAATAAGGCTGGTAGCAAGTTCTGGAT
CTTATACCCAACACACAGCAACATCCAGAAATAAAGATCTCAGGACCCCCAGCAAGTCGTTTTGTGTCTCCTTG
GACTGAGTTAAGTTACAAGCCTTTCTTATACCTGTCTTTGACAAAGAAGACGGGATTGTCTTTACATAAAACCAG
CCTGCTCCTGGAGCTTCCCTGGACTCAACTTCCTAAAGGCATGTGAGGAAGGGGTAGATTCCACAATCTAATCCG
GGTGCCATCAGAGTAGAGGGAGTAGAGAATGGATGTTGGGTAGGCCATCAATAAGGTCCATTCTGCGCAGTATCT
CAACTGCCGTTCAACAATCGCAAGAGGAAGGTGGAGCAGGTTTCTTCATCTTACAGTTGAGAAAACAGAGACTCA
GAAGGGCTTCTTAGTTTCGTGTTTCCCTTAGCGCCTCAGTGATTTTTTCATGGTGGCTTAGGCCAAAAGAAATATC
TAACCATTCAATTTATAAATAATTAGGTCCCCAACGAATTAAATATTATGTCCTACCAACTTATTAGCTGCTTGA
AAAATATAATACACATAAATAAAAAAA

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FIGURE 1568

GGCGCCGGGGATTGGGAGGGCTTCTTGCAGGCTGCTGGGCTGGGGCTAAGGGCTGCTCAGTTTCCTTCAGCGGGG
CACTGGGAAGCGCCATGGCACTGCAGGGCATCTCGGTCTGTGGAGCTGTCCGGCCTGGCCCCGGGCCCCGTTCTGTG
CTATGGTCCTGGCTGACTTCGGGGCGCGTGTGGTACGCGTGGACCGGCCCGGCTCCCGCTACGACGTGAGCCGCT
TGGGCCGGGGCAAGCGCTCGCTAGTGTGGACCTGAAGCAGCCGCGGGGAGCCGCGCTGCTGCGGCGTCTGTGCA
AGCGGTGCGAIGTGTCTGGAGCCCTTCCGCCGCGGTGTCATGGAGAACTCCAGCTGGGCCCAGAGATTCTGC
AGCGGGAAAATCCAAGGCTTATTTATGCCAGGCTGAGTGGATTGGCCAGTCAGGAAGCTTCTGCCGGTTAGCTG
GCCACGATATCAACTATTTGGCTTTGTCTAGGTGTTCTCTCAAAAATTGGCAGAAGTGGTGAGAATCCGTATGCCC
CGCTGAATCTCCTGGCTGACTTTGCTGGTGGTGGCCCTTATGTGTGCACTGGGCATTATAATGGCTCTTTTTGACC
GCACACGCACTGGCAAGGGTCAGGTCAATTGATGCAAATATGGTGGAAGGAACAGCATATTTAAGTTCTTTTCTGT
GGAAAACCTCAGAAATCGAGTCTGTGGGAAGCACCTCGAGGACAGAACATGTTGGATGGTGGAGCACCTTTCTATA
CGACTTACAGGACAGCAGATGGGGAATTCATGGCTGTTGGAGCAATAGAACCCAGTTCTACGAGCTGCTGATCA
AAGGACTTGGACTAAAGTCTGATGAACCTCCCAATCAGATGAGCATGGATGATTGGCCAGAAATGAAGAAGAAGT
TTGCAGATGTATTGCAAAGAAGACGAAGGCAGAGTGGTGTCAAATCTTTGACGGCACAGATGCCTGTGTGACTC
CGGTTCTGACTTTTGAGGAGGTTGTTTCATCATGATCACAACAAGGAACGGGGCTCGTTTATCACCAGTGAGGAGC
AGGACGTGAGCCCCCGCCCTGCACCTCTGCTGTTAAACACCCACAGCATCCCTTCTTTCAAAGGGATCCTTTCA
TAGGAGAACACACTGAGGAGATACTGAAGAATTTGGATTACGCCGCGAAGAGATTTATCAGCTTAACCTCAGATA
AAATCATTGAAAGTAATAAGGTAAAAGCTAGTCTCTTAACCTTCCAGGCCACGGCTCAAGTGAATTTGAATACTGC
ATTTACAGTGTAGAGTAACACATAACATTGTATGCATGGAAACATGGAGGAACAGTATTACAGTGTCTTACCACT
CTAATCAAGAAAAGAATTACAGACTCTGATTCTACAGTGATGATTGAATTTCTAAAAATGGTTATCATTAGGGCTT
TTGATTTATAAACTTTGGGTACTTATACTAAATTATGGTAGTTATTCTGCCTTCCAGTTTGCTTGATATATTTG
TTGATATTAAAGATTCTTGACTTATATTTGAATGGGTTCTAGTGAAAAAGGAATGATATATTCTTGAAGACATCG
ATATACATTTATTTACACTCTTGATTCTACAATGTAGAAAATGAGGAAATGCCACAAATTGTATGGTGATAAAAG
TCACGTGAAACAGAGTGATTGTTGTCATCCAGGCCTTTTGTCTTGGTGTTCATGATCTCCCTCTAAGCACATTCC
AACTTTAGCAACAGTTATCACACTTGTAAATTTGCAAAGAAAAGTTTCACCTGTATTGAATCAGAATGCCTTCA
ACTGAAAAAACATATCCAAAATAATGAGGAAATGTGTTGGCTCACTACGTAGAGTCCAGAGGGACAGTCAGTTT
TAGGGTTGCCTGTATCCAGTAACTCGGGGCCTGTTTCCCGTGGGTCTCTGGGCTGTCAGCTTTCCTTTCTCCAT
GTGTTTGATTTCTCCTCAGGCTGGTAGCAAGTTCTGGATCTTATACCCAACACACAGCAACATCCAGAAATAAAG
ATCTCAGGACCCCC

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FIGURE 1569

MALQGISVVELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGA AVLRR LCKRSDV
LLEPFRRGVMEKLQLGPEILQRENPR LIYARLSGFGQSGSFCRLAGHDINY LALSGVLSKIGRSGENPYAPLNLL
ADFAGGGLMCALGIIMALFDRTGTGKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRT
ADGEFMAVGAIEPQFYELLIKGLGLKSDELPNQMSMDDWPEMKKKFADVFAKKTAEWCQIFDGTDACVTPVLTF
EEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIPSFKRDPFIGEHTEEILEEFGFSREEIYQLNSDKIIES
NKVKASL

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FIGURE 1570

TCTTTCTGGICTCGGCCGCAGAAGCGAGATGACGAAGGGAACGTCATCGTTTGGAAGCGTCGCAATAAGACGCA
CACGTTGTGCCGCCGCTGTGGCTCTAAGGCCTACCACTTCAGAAGTCGACCTGTGGCAAATGTGGCTACCTGC
CAAGCGCAAGAGAAAGTATAACTGGAGTGCCAAGGCTAAAAGACGAAATACCACCGGAAGTGGTCGAATGAGGCA
CCTAAAAATTGTATACCGCAGATTCAGGCATGGATTCCGTGAAGGAACAACACCTAAACCCAAGAGGGCAGCTGT
TGCAGCATCCAGTTCATCTTAAGAAATGTCAACGATTAGTCATGCAATAAATGTTCTGGTTTTAAAAAATAC

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FIGURE 1571

MTKGTSSFGKRRNKTHILCRRCGSKAYHLQKSTCGKCGYPAKRKRKYNWSAKAKRRNTTGTGRMRHLKIVYRRFR
HGFREGTTPKPKRAAVAASSSS

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FIGURE 1572

GTGTCTGTGGGAGGTTATGTTTATTTGAGACTTCTCCATCGGGATCGCCTGGTGTACCAAGTGTCCACTGGTAC
TGAGGTTTGCTGCCTGCCTTCTTGCCATGTCTAACGAAGTAGAAACAAGTGCAACCAATGGTCAGCCCGACCAAC
AGGCCGCACCAAAAGCACCCCTCAAAGAAGGAAAAAAGAAAGGCCCTGAAAAGACAGATGAATATCTCTTAGCAA
GGTTCAAAGGCGATGGTGTAAAAATATAAGGCCAAGCTGATTGGCATTGATGATGTGCCAGATGCAAGAGGGGATA
AAATGAGCCAAGACTCTATGATGAACTAAAGGGAATGGCGGCAGCTGGTCGGTCTCAGGGACAACACAAACAAA
GGATCTGGGTCAACATTTCCCTTTCTGGGATAAAAAATAATTGATGAGAAAACCTGGGGTAATAGAGCATGAACATC
CAGTAAATAAGATTTCTTTTCATTGCCCGTGATGTGACAGACAACCGGGCATTGGTTACGTGTGTGGAGGAGAAG
GCCAGCATCAGTTTTTTGCCATAAAAACCGGGCAACAGGCTGAACCATTAGTTGTTGATCTTAAAGACCTTTTTTC
AAGTTATCTATAATGTAAAGAAAAAGGAAGAAGAAAAAGAAAGATAGAGGAAGCCAGCAAAGCAGTTGAGAATG
GGAGTGAGGCCCTAATGATTCTAGATGACCAAACTAACAACTGAAATCGGGTGTGACCAGATGGATTTGTTTG
GGGACATGTCTACACCTCCTGACCTAAATAGTCCAACAGAAAGCAAAGATATCCTGTTAGTGGATCTAAACTCTG
AAATCGACACCAATCAGAATCTTTAAGAGAAAATCCATTCTTAACAAACGGCATCACCTCCTGTTCTCTTCCTC
GACCAACGCCTCAGGCATCCTTCTTGCCGTGAAAATGCCTTTTCTGCCAATCTCAACTTCTTTCCACCCCTAATC
CTGATCCTTTCCGTGACGATCCTTTACACAGCCAGACCAATCGACACCTTCTTCGTTTGATTCTCTCAAATCTC
CAGATCAGAAGAAAGAGAATTCGAGTAGCTCGTCTACTCCGCTGAGTAATGGGCCCTGAATGGTGATGTTGACT
ACTTTGGTCAGCAATTTGACCAGATCTCTAACCGGACTGGCAAACAGGAAGCTCAGGCAGGCCCATGGCCCTTTT
CAAGTTCGCAAACCCAGCCAGCAGTGAGAACTCAAAATGGGGTATCTGAAAGAGAACAGAACGGCTTCTCTGTCA
AATCCTCCCCGAACCTTTTGTGGGAAGCCCTCCCAAAGGACTGTCCATACAGAATGGCGTAAAGCAGGACTTGG
AAAGCTCTGTCCAGTCTCACCACATGACTCCATAGCCATTATCCACCTCCACAAAGTACCAAAACCAGGAAGAG
GCAGAAGGACTGCTAAGTCTTCAGCCATGACTTGCTTGATCAGACATCTTTGCTCCTCCCGTCTCAGAACCTT
CAGGCCAGGCGTCACCCACAGGACAACCTACAGCCCTGCAGCCCAACCTCTGGATCTCTTCAAACAAGTGCTC
CTGCCCCAGTGGGGCCCTTGGTGGGTCTAGGTAGGTGTAAGTGTACACTCCCTCAGGCAGGACCATGGAACACA
GCATCTTTGGTCTTCAATCAGTCCCCTTCAATGGCTCCGGGAGCCATGATGGGTGGTCAACCTTCAGGTTTTAGT
CAGCCCGTCATTTTGGTACAAGTCCAGCTGTTTCAGGTTGGAACAGCCTTCACCTTTGAGCCTCAACTCCC
CCTCCAGTGCCCTGTTGCTGGGGCCCTTCTGCATCTGTGGCACCCAATGCTTGGTCAACAACAAGCCCTTTGGGG
AATCCTTTTTCAGAGCAATATTTTTCAGCTCCTGCTGTGTCCACTCAGCCCCCATCCATGCACTCCTCTCTCCTG
GTCACTCCTCCTCAGCACCTCCCAGAGCTGGCCCTCCCAAGGACATCTCCAGTGATGCCTTCACTGCCTTAGAC
CCACTTGGGGATAAAGAGATCAAGGATGTGAAAGAAATGTTAAGGATTTCCAAGTGGGCAGCCACCTGCTGTG
CCCGCGCGGAAGGGAGAGCAGACTTCTTCTGGGACTTTGAGTGCCCTTTGCCAGTTATTTCAACAGCAAGGTTGGC
ATTCCCTCAGGAGAATGCAGACCATGATGACTTTGATGCTAATCAACTATTGAACAAGATCAATGAACCACCAAAG
CCAGCTCCCAGACAAGTTTCCCTGCCAGTTACCAATCTACTGACAATGCATTTGAGAACCCTTTCTTTAAAGAT
TCTTTTGGTTTCATCACAAGCCTCTGTGGCTTCTTCTCAACCTGTATCTTCTGAGATGTATAGGGATCCATTGGGA
AATCCTTTTGCCTAAATTCTGAACCTGGTCTGCAGACCATCCAGAGGAATAAAAAGGTTGGCCTTAGTAGTCAA
AACAAAGCTGATAGCCAGACACGTTCTGATTTCTGCCCTTGTTCCAGCTTTGACGATTATCTGTTGCCTTATTT
CTCATTGCCTCTTCTACTTGTAAATGCTTTTCACTTCTGTCTAGGTTAAAGCTAAACTGAATCTATGGCTTTA
AATAAATTAAGATCCTAAACTCTCTAGCTTAAGTGTAATGAAGTACAGTAGTTTCCCTACTGAACCCTGCCTCT
TGTGTCCCTGGAACCTTCTAGAACACCTGCCTTCTACCTCTGGTTGGGAGATGCAGCCACCACATCCCTTCATA
TCATACTGTTTTGAATAAATTTTCAAATCCTTATTGTTTCAGAGTTGTTTGGGGTTCTGTTTCAGAGCATAAAC
CTAAAGGTTATAGTAGAACAAGGCACCTTCTTAAAGAAATCTTGCTTCAGACCATCAGTTACAGAGAATTTCTA
AAGTAAATTAAGCAACTACAATCTCTCCTTAGACACTTTGGAATCTAACCACCTTAAGGACCTTTTTAAAGAGA
TAGCTTCTCTCTTTCTGAAGATCAATTTCTCCCAAGGCCAAGATTGTCCTTTTCTCCATTTCTTGCTAGCTAT
TGCAATGAGGGAAGAACATTATTCATCTCTCCTCCCTTTTTTTTTCTGATTCTTTTTTCAGTCAGTTTTGCTCC
TGGGTTCAAGTAGTATTACCACCCTTTCACAAGCAACAGACTCTCACAGGC

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FIGURE 1573

TAGGATGGAAAGGCAGATGTAAAGTCCCTCATGGCGAAATATAACACGGGGGGCAACCCGACAGAGGATGTCTCA
GTCAATAGCCGACCCTTCAGAGTCACAGGGCCAACTCATCTTCAGGAATACAAGCAAGAAAGAACTTATTCAAC
AACCAAGGAAATGCCAGCCCTCCTGCAGGACCCAGCAATGTACCTAAGTTTGGGTCCCCAAAGCCACCTGTGGCA
GTCAAACCTTCTTCTGAGGAAAAGCCTGACAAGGAACCCAAGCCCCCGTTTCTAAAGCCCCTGGAGCAGGCCAA
AGATTGGAACACCAGCCAGCTTGACCACCAGAGACCCGAGGCGAAAGTGGGATTCTGAAACCTGTAGGCCCC
AAGCCCATCAACTTGCCCAAAGAAAGATTCCAAACCTACATTTCCCTGGCCTCCTGGAAACAAGCCATCTCTTCAC
AGTGTAACCAAGACCATGACTTAAAGCCACTAGGCCCGAAATCTGGGCCTACTCCTCCAACCTCAGAAAATGAA
CAGAAGCAAGCGTTTCCCAAATTGACTGGGGTTAAAGGGAAATTTATGTCAGCATCACAAAGATCTTGAACCCAAG
CCCCCTTTCCCCAAACCCGCTTTGGCCAGAAGCCGCCCCCTAAGTACCGAGAACTCCCATGAAGACGAAAGCCCC
ATGAAGAAATGTGTCTTCATCAAAAGGGTCCCCAGCTCCCCTGGGAGTCAGGTCCAAAGCGGCCCTTTAAACCA
GCAAGGGAAGACTCAGAAAATAAAGACCATGCAGGGGAGATTTCAAGTTTGCCCTTTCCTGGAGTGGTTTTGAAA
CCTGCTGCGAGCAGGGGAGGCCTAGGTCTCTCCAAAAATGGTGAAGAAAAAAGGAAGATAGGAAGATAGATGCT
GCTAAGAACACCTTCCAGAGCAAAATAAATCAGGAAGAGTTGGCCTCAGGGACTCCTCCTGCCAGGTTCCCTAAG
GCCCCTTCTAAGCTGACAGTGGGGGGGCCATGGGGCCAAAGTCAGGAAAAGGAAAAGGGAGACAAGAATTCAGCC
ACCCCGAAACAGAAGCCATTGCCCTCCCTTGTTTACCTTGGGTCCACCTCCACCAAAACCCAACAGACCACCAAT
GTTGACCTGACGAAATTCCACAAAACCTCTTCTGAAACAGTACTAGCAAAGGCCAGACGTCTTACTCAACAACCT
TCCCTGCCACCACCTCCACCATCCCATCCGGCCAGCCAACCAACCATTGCCAGCATCTCACCCATCACAAACCACCA
GTCCCAAGCCTACCTCCCAGAAACATTAAACCTCCGTTTGACCTAAAAAGCCCTGTCAATGAAGACAATCAAGAT
GGTGTACGCACTCTGATGGTGCTGGAAATCTAGATGAGGAACAAGACAGTGAAGGAGAAACATATGAAGACATA
GAAGCATCCAAAGAAAGAGAGAAGAAAAGGGAAAAGGAAGAAAAGAGAGTTAGAGCTGGAGAAAAGGAACAG
AAAGAGAAAAGAAAAGAAAGAAACAAGAAATAAAGAAGAAATTTAACTAACAGGCCCTATTCAAGTCATCCATCTT
GCAAAAGCTTGTTGTGATGTCAAAGGAGGAAAGAATGAAGTGAAGCTTCAAGCAAGGAGAGCAAATTGAAATCATC
CGCATCACAGACAACCCAGAAGGAAAATGGTTGGGCAGAACAGCAAGGGGTTTCATATGGCTATATTAAACAACCT
GCTGTAGAGATTGACTATGATTCTTTGAACTGAAAAAAGACTCTCTTGGTGCCCTTCAAGACCTATTGAAGAT
GACCAAGAAGTATATGATGATGTTGCAGAGCAGGATGATATTAGCAGCCACAGTCAGAGTGGAAGTGGAGGGATA
TTCCCTCCACCACCAGATGATGACATTTATGATGGGATTGAAGAGGAAGATGCTGATGATGGTTTCCCTGCTCCT
CCTAAACAATTGGACATGGGAGATGAAGTTTACGATGATGTGGATACCTCTGATTTCCTGTTTCATCAGCAGAG
ATGAGTCAAGGAATAATTTTGAAAAGCTAAGACAGAAGAAAAGGACCTTAAGAAGCTAAAAAGCAGGAAAAA
GAAGAAAAGACTTCAGGAAAAAATTTAAATATGATGGTGAATTAGAGTCCTATATTCAACTAAAGTTACAACCT
TCCATAACTTCTAAAAAGTGGGGAACCAGAGATCTACAGGTAAACCTGGTGAATCTCTAGAAGTTATACAAACC
ACAGATGACACAAAAGTTCTCTGCAGAAATGAAGAAGGGAAATATGGTTATGTCCTTCGGAGTTACCTAGCGGAC
AATGATGGAGAGATCTATGATGATATTGCTGATGGCTGCATCTATGACAATGACTAGCACTCAACTTTGGTCATT

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FIGURE 1574

MAKYNTGGNPTEDVSVNSRPFRVTGPNSSSGIQARKNLFNNQGNASPPAGPSNVKFGSPKPPVAVKPSSEEKPD
KEPKPPFLKPTGAGQRFGTPASLTTRDPEAKVGFLKPVGPKPINLPKEDSKPTFPWPPGNKPSLHSVNQDHDLP
LGPKSGTPPTSENEQQAFFPKLTGVKGKFMASQDLEPKPLFPKPAFGQKPPLSTENSHEDESPMKNVSSSKGS
PAPLGVRSKSGPLKPAREDSKNDHAGEISSLPFPGVVLKPAASRGGLGLSKNGEEKKEDRKIDAAKNTFQSKIN
QEELASGTPPARFPKAPSKLTVGGPWGQSQEKEKGDKNSATPKQKPLPPLFTLGPPPKPNRPPNVDLTKFHKT
SGNSTSKGQTSYSTTSLPPPPPSHPASQPPLPASHPSQPPVPSLPPRNIKPPFDLKSPVNEDNQDGVTHSDGAGN
LDEEQDSEGETYEDIEASKEREKKREKEKKRLELEKKEQEKEKEQEIKKKFKLTGPIQVIHLAKACCDVKGG
KNELSFQGEQIEIIRITDNPEGKWLGRRTARGSYGYIKTTAVEIDYDSLKLKDSLGAAPSRPIEDDQEVYDDVAE
QDDISSHSQSGSGGIFPPPPDDDIYDGIEEDADDGFPAPPQLDMGDEVYDDVDTSDFPVSSAEMSQGTNFGKA
KTEEKDLKKLKKQEKEEKDFRKKFKYDGEIRVLYSTKVTTITSKKWGTRDLQVKPGESLEVIQTTDDTKVLCRN
EEGKYGYVLRSYLADNDGEIYDDIADGCIYDND

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FIGURE 1575

[illegible]

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FIGURE 1576

MERSGPSEVTGSDASGPDQLAVTMGFTGFGKKARTFDLEAMFEQTRRTAVERSRTLEAREKEEEMNREKELRR
QNEIDIEPTSSRSNVVRDCSKSSSRDTSSSESEQSSDSDDELIGPPLPPKMVGKPVNFMEDILGPLPPPLNEEE
EEAESEEEEEEEEEENPVHKIPDSHEITLKHGKTKTVSALGLDPSGARLVTGGYDYDVKFWDFAFMDASFKAFRSLQ
PCECHQIKSLQYSNTGDMILVVGSSQAKVIDRDGFVMECIKGDQYIVDMANTKGHTAMLHTGSWHPKIKGEFM
TCSNDATVRTWEVENPKKQKSVFKPRTMQGKKVIPTTCTYSRDGNLIAAACQNGSIQIWRNLTVHPKFHYKQAH
DSGTDTSCTVFSYDGNVLAASRGDDSLKLWDIRQFNKPLFSASGLPTMFPMTDCCFSPDDKLIVTGTSIQRGCGS
GKLVFFERRTFQRVYEIDITDASVVRCLWHPKLNQIMVGTGNGLAKVYYDPNKSQRGAKLCVVKTQRKAKQAETL
TQDYIITPHALPMFREPRQRSTRKQLEKDRLDPLKSHKPEPPVAGPGRGGRVGTGGTLSSYIVKNIALDKTDDS
NPREALRHAKAAEDSPYWVSPAYSKTQPKTMFAQVESDDEEAKNEPEWKKRKI

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FIGURE 1577

CGGGCTGTAGAGCCTTGCGCGCGCAGTGGGGATGGAACGTTGCTAGGCTTAGCGGGTCTGGCTGCTGGGGGCCCCG
AGCAGCACGCTCGGAGCCGCCGCGGCCAAAGCGGGAATCTGGGAGGCGAGCAGCTCTGCAGTTAATGCACGTAT
TTTAAACTCCCGGGCCTGCGGACGCTATGCACAGGAAGCACCTCCAGGAGATTCCAGACCTGAGTAGCAACGTTG
CCACCAGCTTCACGTGGGGATGGGATTCCAGCAAGACTTCTGAACTGCTGTCAGGCATGGGGGCTCTCCGCCCTGG
AGAAAGAGGAGCCCCGACAGTGAGAACATCCCCCAGGAAGTCTCTCAAACCTGGGCCACCCGGAGAGCCCCCAC
GGAAACGGCTGAAGAGCAAAGGGAGTGACAAAGACTTTGTGATTGTCCGCAGGCCTAAGCTAAATCGAGAGAACT
TTCCAGGTGTTTCATGGGACTCCCTTCCGGATGAGCTGCTCTTGGGAATCTTTTCCTGTCTGTGCCTCCCTGAGC
TGCTAAAGGTCTCTGGTGTGTTGTAAGAGGTGGTATCGCCTAGCGTCTGATGAGTCTCTATGGCAGACCTTAGACC
TCACAGGTAAAAATCTGCACCCGGATGTGACTGGTCGGTTGCTGTCTCAAGGGGTGATTGCCTTCCGCTGCCCCAC
GATCATTTATGGACCAACCATTGGCTGAACATTTTCAGCCCTTTTCGTGTACAGCACATGGACCTATCGAACTCAG
TTATAGAAGTGTCCACCCTCCACGGCATACTGTCTCAGTGTTCAGTTCAGAAATCTAAGCCTGGAAGGCCTGC
GGCTTTCGGATCCCATTGTCAATACTCTCGCAAAAACTCAAATTTAGTGCGACTTAACCTTTCTGGGTGTTCTG
GATTCTCTGAATTTGCCCTGCAGACTTTGCTAAGCAGCTGTTCCAGACTGGATGAGCTGAACCTCTCCTGGTGT
TTGATTTCACTGAAAAGCATGTACAGGTGGCTGTTGCGCATGTGTCAGAGACCATCACCCAGCTGAATCTTAGCG
GCTACAGAAAAGATCTCCAGAAATCAGATCTCTCTACTTTAGTTAGAAGATGCCCAATCTTGTCCATCTAGACT
TAAGTGATAGTGTATGCTAAGAATGACTGCTTTCAGGAATTTTCCAGCTCAACTACCTCCAACACCTATCAC
TCAGTCGGTGCTATGATATAATACCTGAACTTTACTATTAGTGACAAGAGCTGGGGTTAGGATCCGGTTGGACT
CTGACATCGGATGCCCTCAAACATACAGAACTTCCAACTCAAGTCCAGCCATAAGCTATTTTGCCAACATGTCA
GAGTAATCTGTATTTTGTATGTGATTTCTACTTTTATAGACTTGTTTTAAACAATATAAACACATTTTATAAA
AATGAGTGCTTAACTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1578

MHRKHLQEIPDLSSNVATSFTWGWDSKTSSELLSGMGVSALEKEEPPDSENIPQELLSNLGHPESP
DKDFVIVRRPKLNRENFPFVSWDSLPELLLGIFSCCLPELLKVSGVCKRWYRLASDESLWQTL
VTGRLLSQGVIAFRCPRSFMDQPLAEHFSFPRVQHMDLSNSVIEVSTLHGILSQCSKLQNL
LAKNSNLVRLNLSGCSGFSEFALQTLSSCSRDELNLSWCFDTEKHVQVAVAHVSETITQNL
DLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLLVTRAGVR
IRLSDDIGCPQTY
RTSKLKSSHKLFQHVVRVICIFVCDFFYRLVLKQ

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FIGURE 1579

GAATTCCGGGCTGTAGAGCCTTGCGCGCGCAGTGGGGATGGAACGTTGCTAGGCTTAGCGGGTCTGGCTGCTGGG
GGCCCGAGCAGCACGCTCGGAGCCGCCGCGCCAAAGCGGGAATCTGGGAGGCGAGCAGCTCTGCAGTTAATGC
ACGTATTTTAACTCCCGGGCCTGCGGACGCTATGCACAGGAAGCACCTCCAGGAGATTCCAGACCTGAGTAGCA
ACGTTGCCACCAGCTTCACGTGGGGATGGGATTCCAGCAAGACTTCTGAACTGCTGTCAGGCATGGGGTCTCCG
CCCTGGAGAAAGAGGAGCCCGACAGTGAGAACATCCCCAGGAAGTCTCTCAAACCTGGGCCACCCGGAGAGCC
CCCCACGGAACGGCTGAAGAGCAAAGGGAGTGACAAAGACTTTGTGATTGTCCGCAGGCCTAAGCTAAATCGAG
AGAACTTTCCAGGTGTTTCAIGGGACTCCCTTCCGGATGAGCTGCTCTTGGGAATCTTTTCCTGTCTGTGCCTCC
CTGAGCTGCTAAAGGCTCTGTTGTTGTAAGAGGTGGTATCGCCTAGCGTCTGATGAGTCTCTATGGCAGACCT
TAGACCTCACAGGTAAAAATCTGCACCCGGATGTGACTGGTCGGTTGCTGTCTCAAGGGGTGATTGCCTTCCGCT
GCCCACGATCATTTATGGACCAACCATTTGGCTGAACATTTAGCCCTTTTCGTGTACAGCACATGGACCTATCGA
ACTCAGTTATAGAAGTGTCCACCCCTCCACGGCATACTGTCTCAGTGTTCAGTTGCAGAAATCTAAGCCTGGAAG
GCCTGCGGCTTTCCGATCCCATTTGTCAATACTCTCGCAAAAACTCAAATTTAGTGCGACTTAACCTTTCTGGGT
GTTCTGGATTCTCTGAATTTGCCCTGCAGACTTTGCTAAGCAGCTGTTCCAGACTGGATGAGCTGAACCTCTCCT
GGTGTTTTGATTTCACTGAAAAGCATGTACAGGTGGCTGTTGCGCATGTGTCAGAGACCATCACCCAGCTGAATC
TTAGCGGCTACAGAAAGAATCTCCAGAAATCAGATCTCTACTTTAGTTAGAAGATGCCCCAATCTTGTCCATC
TAGACTTAAGTGATAGTGTCTATGCTAAAGAATGACTGCTTTCAGGAATTTTCCAGCTCAACTACCTCCAACACC
TATCACTCAGTCGGTGCTATGATATAATACCTGAACTTTACTTGAACCTGGAGAAATCCCACACTAAAAACAC
TACAAGTTTTTGGAATCGTGCCAGATGGTACCCTTCAACTGTTAAAGGAAGCCCTTCCTCATCTACAGATTAATT
GCTCCCATTTACCAACCATTTGCCAGGCCAACTATTGGCAACAAAAAGAACCCAGGAGATATGGGGCATCAAATGCC
GACTGACACTGCAAAAGCCCAGTTGTCTATGAAGTATTTATTGCAGGATGGTGTCTCTTCTTTAGAACAGGGAAA
ATAGGCAGGAAGCCCAATTGCTGGAGTACTTAGCTAGTTTTATTCTTGGTTTTCCCTTTGCCTTCATTCTGCAAG
TATACTAGGGAGCCATTTGAGAGGG

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FIGURE 1580

MHRKHLQEIPDLSSNVATSFTWGWDSSTSELLSGMGVSALEKEEPDSENIPQELLSNLGHPESP
PRKRLKSKGS
DKDFVIVRRPKLNRENFPGVSWDSLPELLLGIFSCCLPELLKVSGVCKRWYRLASDESLWQTL
DLTGKNLHPD
VTGRLLSQGVIAFRCPRSFMDQPLAEHFSFPRVQHMDLSNSVIEVSTLHGILSQCSKLQNL
SLEGLRLSDPIVNT
LAKNSNLVRLNLSGCSGFSEFALQTLSSCSRLELNLSWCFDTEKHVQVAVAHVSETITQNL
SGYRKNLQKS
DLSTLVRRCPNLVHLDLSDSVMLKNDCFQEFFQLNYLQHLSLSRCYDIIPETLLELGEI
PTLKTQVFGIVPDGT
LQLLKEALPHLQINCSHFTTIARPTIGNKKNQEIWGIKCRLLQKPSCL

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FIGURE 1581A

ATTCTTCTAAGGAGCCTAAATTACCAAGTGCCGTTACCTGAGCGAGAGACTTTTTTCATGCCACTGGACAGATG
AGGTTTCATCATGGTACAAAGAACCTAGGACCCATACAGCTGTTCTATACCAGAAGGAACACTCAAGAAATGGACTC
AAGAATGGAAAGAATGCCCTGATTATGTTTTCTGCTGGGGAACAGCTGTTACTTTAATTCATCGTTTACCTCCA
TCTGGATACCTTATTGTATCAAGCTAACTAGCAATGGTGGTACAGTGGATGAAAAGTGTCTCTGTTGTATGAAA
TAGTGCAACCAGATCCACCCATTGCCCTCACTGGACTTTACTGAACGTCAGTTTAACTGGGATTTCATGCAGATA
TCCAAGTGAGATGGGAAGCACCACGCAATGCAGATATTAGAAAAGGATGGATGGTTCTGGAGTATGAACCTCAAT
ACAAAGAAGTAAATGAACTAAATGGAAAATGATGGACCCTATATTGACAACATCAGTTCCAGTGTACTCATTGA
AAGTGGATAAGGAATATGAAGTGGTGTGAGATCCAAACAACGAACTCTGGAAATTATGGCGAGTTCAGTGAGG
TGCTCTATGTAACACTTCCTCAGATGAGCCAATTTACATGTGAAGAAGATTTCTACTTTCCATGGCTCTTAATTA
TTATCTTTGGAAATATTTGGGCTAACAGTGATGCTATTTGTATTCTTATTTTCTAAACAGCAAAGGATTAATAATGC
TGATTCTGCCCCAGTTCCAGTTCCAAAGATTAAAGGAATCGATCCAGATCTCCTCAAGGAAGGAAAATTAGAGG
AGGTGAACACAATCTTAGCCATTTCATGATAGCTATAAACCCGAATTCACAGTGTACTCTTGGGTTGAATTTA
TTGAGCTAGATATTGATGAGCCAGATGAAAAGACTGAGGAATCAGACACAGACAGACTTCTAAGCAGTGACCATG
AGAAATCACATAGTAACCTAGGGGTGAAGGATGGCGACTCTGGACGTACCAGCTGTTGTGAACCTGACATTCTGG
AGACTGATTTCATGCCAATGACATACATGAGGGTACCTCAGAGGTTGCTCAGCCACAGAGGTTAAAAGGGGAAG
CAGATCTCTTATGCCTTGACCAGAAGAATCAAAATAACTCACCTTATCATGATGCTTGCCCTGCTACTCAGCAGC
CCAGTGTTATCCAAGCAGAGAAAAACAAACCACAACCACTTCCTACTGAAGGAGCTGAGTCAACTCACCAAGCTG
CCCATATTTCAGCTAAGCAATCCAAGTTCAGTGTCAAACATCGACTTTTATGCCCAGGTGAGCGACATTACACCAG
CAGGTAGTGTGGTCTTTTCCCCGGGCCAAAAGAATAAGGCAGGGATGTCCCAATGTGACATGCACCCGGAAATGG
TCTCACTCTGCCAAGAAAACCTTCCTTATGGACAATGCCTACTTCTGTGAGGCAGATGCCAAAAGTGCCTCCCTG
TGGCTCCTCACATCAAGGTTGAATCACACATACAGCCAAGCTTAAACCAAGAGGACATTACATCACCACAGAAA
GCCTTACCACTGCTGCTGGGAGGCCCTGGGACAGGAGAACATGTTCCAGGTTCTGAGATGCCTGTGCCAGATATA
CCTCCATTTCATATAGTACAGTCCCCACAGGGCCTCATACTCAATGCGACTGCCTTGCCCTTGCCCTGACAAAGAGT
TTCTCTCATCATGTGGCTATGTGAGCACAGACCAACTGAACAAAATCATGCCTTAGCCTTCTTTGGTTTCCCAA
GAGCTACGTATTTAATAGCAAAGAATTGACTGGGGCAATAACGTTTAAGCCAAAACAATGTTTAAACCTTTTTTG
GGGGAGTGACAGGATGGGGTATGGATTCTAAAATGCCTTTTCCCAAATGTTGAAATATGATGTTAAAAAATAA
GAAGAATGCTTAATCAGATAGATATTCCTATTGTGCAATGTAAATATTTTAAAGAATTGTGTCAGACTGTTTAGT
AGCAGTGATTGTCTTAATATTGTGGGTGTTAATTTTGATACTAAGCATTGAATGACTATGTTTTTAATGTATAG
TAAATCACGCTTTTGAAGGAGCGAAAAATCAGGTGGCTTTTGCGGTTACAGGAAAATTGAATGCAACCATAGC
ACAGGCTAATTTTTGTGTGTTCTTAAATAAGAACTTTTTTATTTAAAAAACTAAAACTAGAGGTGAGAAATT
TAACTATAAGCAAGAAGGCAAAAATAGTTTGGATATGTAAACATTTTATTTGACATAAAGTTGATAAAGATAT
TTTTAATAATTTAGACTTCAAGCATGGCTATTTTATATTACACTACACTGTGTACTGCAGTTGGTATGACCCC
TCTAAGGAGGTAGCAACTACAGTCTAAAGCTGGTTTAAATGTTTGGCCAAATGCACCTAAAGAAAAACAACTCG
TTTTTTACAAAGCCCTTTTATACCTCCCAGACTCCTTCAACAATTCTAAAATGATTGTAGTAATCTGCATTATT
GGAATATAATGTTTTATCTGAATTTTTAAACAAGTATTTGTTAATTTAGAAAACCTTTAAAGCGTTTGCACAGAT
CAACTTACCAGGCACCAAAAGAAGTAAAGCAAAAAAGAAAACCTTTCTTACCAAATCTTGGTTGATGCCAAAA
AAAAATACATGCTAAGAGAAGTAGAAATCATAGCTGGTTCACACTGACCAAGATACTTAAGTGCTGCAATTGCAC
GCGGAGTGAGTTTTTTAGTGCGTGCAGATGGTGAGAGATAAGATCTATAGCCTCTGCAGCGGAATCTGTTTCACAC
CCAACCTGGTTTTTGTACATAATTATCCAGGAAGGGAATAAGGTACAAGAAGCATTTTGTAAGTTGAAGCAAATC
GAATGAAATTAAC TGGGTAATGAACAAAGAGTTCAAGAAATAAGTTTTTGTTCACAGCCTATAACCAGACACA
TACTCATTTTTTCATGATAATGAACAGAACATAGACAGAGAAACAAGGTTTTTCAGTCCCCACAGATAACTGAAAA
TTATTTAAACCGTAAAAAGAACTTTCTTTCTCACTAAATCTTTTATAGGATTTATTTAAATAGCAAAAGAAGA
AGTTTCATCATTTTTTACTTCCTCTCTGAGTGGACTGGCCTCAAAGCAAGCATTGAGAAGAAAAAGAAGCAACCT
CAGTAATTTAGAAATCATTTTGAATCCCTTAATATCCTAAACATCATTCTTTTGTGTTGTTGTTGTTGAGA
CAGAGTCTCGCTCTGTGCGCAGGCTAGAGTGCAGTGGCGGATCTTGACTCACTGCAATCTCCACCTCCCACAGG
TTCAGGCGATTCCCGTGCTCAGCCTCTGAGTAGCTGGGACTACAGGCACGCAACCACATGCCAGGCTAATTTT
TTTGATTTTTAGCAGAGACGGGGTTTACCATGTTGGCCAGGATGGTCTCGATCTCCTGACCTCGTGATCCACCC
GACTCGGCCTCCCAAAGTGCTGGGATTACAGGTGTAAGCCACCGTGCCAGCCCTAAACATCATTCTTGAGAGCA

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FIGURE 1581B

TTGGGATATCTCCTGAAAAGGTTTATGAAAAAGAAGAATCTCATCTCAGTGAAGAATACTTCTCATTTTTTTAAAA
AAGCTTAAACCTTTGAAGTTAGCTTTAACTTAAATAGTATTTCCCATTTATCGCAGACCTTTTTTAGGAAGCAAG
CTTAATGGCTGATAATTTTAAATTCTCTCTCTTGCAGGAAGGACTATGAAAAGCTAGAATTGAGTGTTTAAAGTT
CAACATGTTATTTGTAATAGATGTTTGATAGATTTTCTGCTACTTTGCTGCTATGGTTTTCTCCAAGAGCTACAT
AATTTAGTTTCATATAAAGTATCATCAGTGTAGAACCTAATTCAATTCAAAGCTGTGTGTTTGAAGACTATCTT
ACTATTTACAACAGCCTGACAACATTTCTATAGCCAAAAATAGCTAAATACCTCAATCAGTCTCAGAATGTCAT
TTTGGTACTTTGGTGGCCACATAAGCCATTATTTCACTAGTATGACTAGTTGTGTCTGGCAGTTTATATTTAACTC
TCTTTATGTCGTGGATTTTTTCCTTCAAAGTTTAAATAAATTTATTTTCTTGGATTCTGATAGTGTGCTTCTGT
TATCAAACACCAACATAAAAATGATCTAAACC

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FIGURE 1582

CCTTCACACAGCTCTTTTACCATGCCTGGATCACTTCCTTTGAATGCAGAAGCTTGCTGGCCAAAAGATGTTGGG
ATTGTTGCCCTTGAGATCTATTTTCCTTCTCAATATGTTGATCAAGCAGAGTTGGAAAAATATGATGGTGTAGAT
GCTGGGAAGTATACCATTGGCTTGGGCCAGGCCAAGATGGGCTTCTGCACAGATAGAGAAGATATTAACCTCTCTT
TGCATGACTGTGGTTCAGAATCTTATGGAGAGAAATAACCTTTCTATGATTGCATTGGGCGGCTGGAAGTTGGA
ACAGAGACAATCATCGACAAATCAAAGTCTGTGAAGACTAATTTGATGCAGCTGTTTGAAGAGTCTGGGAATACA
GATATAGAAGGAATCGACACAACCTAATGCATGCTATGGAGGCACAGCTGCTGTCTTCAATGCTGTTAACTGGATT
GAGTCCAGCTCTTGGGATGGACGGTATGCCCTGGTAGTTGCAGGAGATATTGCTGTATATGCCACAGGAAATGCT
AGACCTACAGGTGGAGTTGGAGCAGTAGCTCIGCTAATTGGGCCAAATGCTCCTTTAATTTTTGAACGAGGGCTT
CGTGGGACACATATGCAACATGCCATGATTTTTACAAGCCTGATATGCTATCTGAATATCCTATAGTAGATGGG
AAACTCTCCATACAGTGCTACCTCAGTGCTATTAGACCGCTGCTATTCTGTCTACTGCAAAAAGATCCATGCCCAG
TGGCAGAAAGAGGGAAATGATAAAGATTTTACCTTGAATGATTTTGGCTTCATGATCTTTCACTCACCATATTGT
AAACTGGTTTCAGAAATCTCTAGCTCGGATGTTGCTGAATGACTTCCTTAATGACCAGAATAGAGATAAAAATAGT
ATCTATAGTGGCCTGGAAGCCTTTGGGGATGTTAAATTAGAAGACACCTACTTTGATAGAGATGTGGAGAAGGCA
TTTATGAAGGCTAGCTCTGAACCTTTCAGTCAGAAAACAAAGGCATCTTTACTTGTATCAAATCAAATGGAAAT
ATGTACACATCTTCAGTATATGGTTCCCTTGCACTGTCTTAGCACAGTACTCACCTCAGCAATTAGCAGGGAAG
AGAATTGGAGTGTTTTCTTATGGTTCTGGTTTGGCTGCCACTCTGTACTCTCTTAAAGTCACACAAGATGCTACA
CCGGGGTCTGCTCTTGATAAAATAACAGCAAGTTTATGTGATCTTAAATCAAGGCTTGATTCAAGAACTGGTGTG
GCACCAGATGCTTCGCTGAAAACATGAAGCTCAGAGAGGACACCCATCATTGGTCAACTATATTCCCCAGGGT
TCAATAGATTCACTCTTTGAAGGAACGTGGTACTTAGTTAGGGTGGATGAAAAGCACAGAAGAACTTACGCTCGG
CGTCCCCTCCAAATGATGACACTTTGGATGAAGGAGTAGGACTTGTGCATTCAAACATAGCAACTGAGCATATT
CCAAGCCCTGCCAAGAAAGTACCAAGACTCCCTGCCACAGCAGCAGAACCTGAAGCAGCTGTCAATTAGTAATGGG
GAACATTAAGATACTCTGTGAGGTGCAAGACTTCAGGGTGGGGTGGGCATGGGGTGGGGTATGGGAACAGTTGG

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FIGURE 1583

MPGSLPLNAEACWPKDVGIVALEIYFPSQYVDQAELEKYDGVDAKTYTIGLGQAKMGFCTDREDINSLCMTVVQN
LMERNNLSYDCIGRLEVGTETIIDKSKSVKTNLMQLFEESGNTDIEGIDTTNACYGGTAAVFNAVNWIESSSWDG
RYALVVAGDIAVYATGNARPTGGVGAVALLIGPNAPLIFERGLRGTHMQHAYDFYKPDMLSEYPIVDGKLSIQCY
LSALDRCYSVYCKKIHAQWQKEGNDKDFTLNDFGFMIFHSPYCKLVQKSLARMLLNDFLNDQNRDKNSIYSGLEA
FGDVKLEDITYFDRDVEKAFMKASSELF SQTKASLLVSNQNGNMYTSSVYGS LASVLAQYSPQQLAGKRIGVFSY
GSGLAATLYSLKVTQDATPGSALDKITASLCDLKSRLDSRTGVAPDVFAENMKLREDTHHLVNYIPQGSIDSLFE
GTWYLV RVDEKHRRTYARRPTPNDDTLDEGVGLVHSNIATEHIPSPAKKVPRLPATAAEPEAAVISNGEH

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FIGURE 1584

CAATGGGTTT GCCACCAGAACACAGGTGTTGTGAAAAC TACCCCTAAAAGCCAAAATGGGAAAGGAAAAGACTCA
TATCAACATTGTCGTCATTGGACACGTAAATTCGGGCAAGTCCACCACTACTGGCCATCTGACCTACAAATGTGG
TGGCATCGACAAAAGAACCATTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGACTCCTTCAAGTATGC
CTGGGCTCTTG CATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGAC
CAGCAAGTACTATGTGACTATCATTGATGCCCCAGGACTCAGAGACTTCATCAAAAACATGATTACAGGGACATC
TCAGGCTGTGCTGTCTGATGGTTGCTGCTGGTGTGGCGAATTTGAAACTGGTATCTCCAAGAATGGGCAGACC
TGAGAGCATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTAAACAAAATGGATTCCACT
GAGCCACCCTACAGCCAGAAGAGAGAAGAGGAAATTTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTTGGTTAC
AACCCTGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTGACAACATGCTGGAGCCGAGTGCTAACATG
CCTTGGCTCAAGGGATGGAAGGCCACCCGTAAGGATGGCAGTGCCAGCGGCACCATGCTGCTTGAGGCTCTGGAC
TGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCGCCTGCCCTCTCCAGGATGTCTACAAAATTTGGTGGT
ATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTCTCAAACCTGGTGTGGTGGTCACTTTGCTCCAGTC
AACATTACAACAGAAGTAAATCTGTGGAATGCACCATGAAGCTTTGAGTGAAGCTCTCCTGGGGACAATGTG
GGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTGCTGCTGGCAACGTTGCTGGTGACAGCAAAAATGACCCA
CCAATGGAAACAGCTGACTTCATTGCTCAGGTAATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCC
CCTATATTGGATTGCCACGCGGCTCACATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCGGTTCT
GGTAAAAGCTGGAAGATGGCCCTAAATTTCTGAAGTCTGGTGTGCTGCCATTGTTGATATGGTTCCTGGCAAG
CCCATTGTTGAGAGCTTCTCAGACTATCCACCTTTGGGTCAATTTGCTGTTGCTGATATGAGACAGACAGTTGCG
GTGGGTGTCAATCAAAGCAGTGGACAAGAAGGCTGCTGGAGGTGGCAAGGTCACGAAGTCTGCCCAGACAGCTCAG
AAGGCTAAATGAATATTATCCCTAATACCTGCCACCAACTCTTAATCAGTGGTGGGAAGATGGTCTCAGAACTG
TTTGTTCATTTGGCCATTTAAGTTTAGTAGTGAAAGACTGGTTAATGATAACAATGCATCGTAAAACCTTCAGA
AGGAAAGGAGAATGTTTTGTGGACCACTTTGGTTTTCTTTTTTGCATGTGGTAGTTTTAAGTTATTAGTTTTTAA
AATCAGTACTTTTTAATGGAACAACCTTGACCAAAAATTTGTCACAGAATTTTGAGACC

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FIGURE 1585

MDSTEPPYSQKREEEIVKEVSTYIKKIGYNPDIVAFVPISGWNGDNMLEPSANMPWLKGWKATRKDGSASGTMLL
EALDCILPPHTPTDKPLRLPLQDVYKIGGIGTVPVGRVETGVLKPGVVVTFAPVNITTEVKSVEMHHEALSEALP
GDNVGFNVKNVSVKDVRRGNVAGDSKNDPPMETADFIAQVIILNHPGQISAGYAPILDCHAAHIACKFAELKEKI
DRSGGKKLEDGPKFLKSGDAAIVDMVPGKPIVESFS DYPLGHFAVRDMRQTVAVGVKAVDKKAAGGGKVTKSA
QTAQKAK

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FIGURE 1586

CACAGGTGTTGTGAAAAC TACCCCTAAAAGCCAAATGGGAAAGGAAAAGACTCATATCAACATTGTCGTCATTG
GACACGTAAATTCGGGCAAGTCCACCACTACTGGCCATCTGACCTACAAATGTGGTGGCATCGACAAAAGAACCA
TTGAAAAATTTGAGAAGGAGGCTGCTGAGATGGGAAAGGACTCCTTCAAGTATGCCTGGGTCTTGACATAAACTGA
AAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACTATGTGACTA
TCATTATGCCCTTCTGGCTTACACACTGGGTGTGAAACAACTAATTGTTGGTGTTAACAAAATGGATTCCACTGA
GCCACCCTACAGCCAGAAGAGAGAAGAGGAAATTGTTAAGGAAGTCAGCACTTACATTAAGGGTGACAACATGCT
GGAGCCGAGTGCTAACATGCCCTTGGCTCAAGGGATGGAAAGCCACCCGTAAGGATGGCAGTGCCAGCGGCACCAT
GCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACAAGCCCTTGCGCCTGCCTCTCCAGGA
TGTCTACAAAATTGGTGGTATTGGTACTGTTCTGTTGGCCGAGTGGAGACTGGTGTTCTCAAACCTGGTGTGGT
GGTCACCTTTGCTCCAGTCAACATTACAACAGAAGTAAATCTGTGCGAAATGCACCATGAAGCTTTGAGTGAAGC
TCTTCCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGGATGTTTCGTCGTGGCAACGTTGCTGG
TGACAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCCTATATTGGATTGCCACGCGGCTCAC

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FIGURE 1587

AAATTGTTAAGGAAGTCAGCACTTACATTAAGAAAATTGGTTACAACCCTGACACAGTAGCATTGTGCCAATTT
CTGGTTGGAATGGTGACAACATGCTGGAGCCGAGTGCTAACATGCCTTGGCTCAAGGGATGGAAAGCCACCCGTA
AGGATGGCAGTGCCAGCGGCACCATGCTGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCATCCAAGTACA
AGCCCTTGCGCCTGCCTCTCCAGGATGTCTACAAAATTGGTGGTATTGGTACTGTTCCCTGTTGGCCGAGTGGAGA
CTGGTGTCTCTCAAACCTGGTGTGGTGGTCACCTTTGCTCCAGTCAACATTACAACAGAAGTAAAATCTGTCGAAA
TGCACCATGAAGCTTTGAGTGAAGCTCTTCTGGGGACAATGTGGGCTTCAATGTCAAGAATGTGTCTGTCAAGG
ATGTTTCGTCGTGGCAACGTTGCTGGTGACAGCAAAAATGACCCACCAATGGAAACAGCTGACTTCATTGCTCAGG
TAATTATCCTGAACCATCCAGGCCAAATAAGCGCTGGCTATGCCCCCTATATTGGATTGCCACGCGGCTCACATTG
CATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGCGGTTCTGGTAAAAAGCTGGAAGATGGCCCTACCACCT
TTGGGTCAATTTGCTGTTCGTGATATGAGACAGACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCT
GCTGGAGGTGGCAAGGTCACGAAGTCTGCCCAGACAGCTCAGAAGGCTAAATGAATATTATCCCTAATACCTGCC
ACCCAACCTCTTAATCAGTGGTGAAGAATGGTCTCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTG
AAAGACTGGTACTTTTTAATGGAACAACCTGACCAAAAATTTGTCACAGAATTTTGAGACCTGTTAAAAAAGTT
TAATGAG

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FIGURE 1588A

TTTGTCCATGTCTCGGACAGAGCCTGGGAAGCTGCCAGTGAGATTTTCAGAGACCAAGAGCGCGAAGGGGCGGGCG
ATGTGGCAATCCGTCTGGGATGTGAAAAGCGTGGAGCGCATTTAGAGGAATTCGACGAAAACACAGGAAATCACT
CCTCTCCCGCTCCTGGGCGCCGCTGCCACTGGGGCAGAGGACTGGGAACCGCGGCAGCGGGATAAGTGGCCCCAGC
CAGAGAGCGCAGCTCCCGCGCCCGGTCTGCCCTGCGAACCAGCGCGGCCCTGGCGCTGAGGCTGCTCCGGCC
ATGGCCCCCTCGGCCCGCGCCCGCCAGGGGTGCGTGTGCGCTGCTGCTGGCTCCTCACTGTTGTTCTACGCTGC
TGCGTATCATTCAATGTTGATGTGAAAAATTCAATGACTTTCAGCGGCCCGGTGGAAGACATGTTTGGATATACT
GTTCAACAATATGAAAATGAAGAAGGAAAATGGGTGCTTATTGGTTCTCCGTTAGTTGGCCAACCCAAAAACAGA
ACTGGAGATGTCTATAAGTGTCCAGTTGGGAGAGGTGAATCATTACCTTGTGTAAAGTTGGATCTACCAGTTAAT
ACATCAATTCCCAATGTCACAGAAGTAAAGGAGAACATGACATTTGGATCAACTTTAGTCACCAACCCAAATGGA
GGATTTCTGGCTTGTGGGCCCTTATATGCCATAGATGTGGACATTTGCATTACACAACCTGGAATCTGTTCTGAC
GTCAGCCCCACATTTCAAGTCGTGAATTCATTGCCCTGTACAAGAATGCAGCACTCAACTGGACATAGTCATA
GTGCTGGATGGTTCCAACAGTATTTACCCATGGGACAGTGTACAGCTTTTTTAAATGACCTTCTTGAAAGAATG
GATATTGGTCTTAAACAGACACAGGTTGGAATTGTACAGTATGGAGAAAACGTGACCCATGAGTTCAACCTCAAT
AAGTATTTCTCCACCGAAGAGGTACTTGTTCAGCAAAGAAAATAGTCCAGAGAGGTGGCCGCCAGACTATGACA
GCTCTTGGAATAGACACAGCAAGAAAGGAGGCATTACGGAAGCCCGGGGTGCCGAAGAGGAGTTAAAAAGTC
ATGGTTATTGTGACAGATGGAGAGTCTCATGACAATCATCGACTGAAGAAGGTCATCCAAGACTGTGAAGATGAA
AACATTCAACGGTTTTTCCATAGCTATTCTTGGCAGCTATAACCGAGGAAATTTAAGCACTGAAAAATTTGTGGAG
GAAATAAAATCAATTGCAAGTGAACCCACTGAAAAGCATTCTTCAATGTCTCTGATGAATTGGCTCTAGTCACC
ATTGTTAAACTCTGGGAGAAAAGAAATATTGGCCCTGGAAGCCACAGCTGACCAGTCAGCAGCTTCATTGAAATG
GAAATGTCTCAGACTGGCTTCAGTGCTCATTATTCACAGGACTGGGTGATGCTTGGAGCAGTAGGAGCCTATGAT
TGGAATGGAACAGTTGTCTATGCAGAAGCTAGTCAAATCATAATCCCTCGAAACACAACCTTTAATGTTGAGTCT
ACCAAAAAGAATGAACCGCTTGCTTCTTATTAGGTTACACTGTAACTCTGCTACTGCTTCTTCTGAGATGTG
CTCTATATTGCTGGACAGCCTCGGTACAATCATACAGGCCAGGTCATTATCTACAGGATGGAAGATGGAACATC
AAAATTTCCAGACGCTCAGTGGAGAACAGATTGGTTCCTACTTTGGCAGTATTTTAAACAACAACCTTGACATTGAC
AAGGATTCTAATACTGACATTCTTCTAGTCGGAGCCCCCTATGTACATGGGAACAGAGAAGGAGGAGCAAGGAAAA
GTGTATGTGTATGCTCTCAATCAGACAAGGTTTGAATATCAAATGAGCCTGGAACCTATTAAGCAGACGTGCTGT
TCATCTCGGCAGCACAAATTCATGCACAACAGAAAACAAAATAGCCATGCGGGGCTCGTTTTGGAACCTGCAATT
GCTGCTGTAAAAGACCTCAATCTTGATGGATTTAATGACATCGTGATAGGAGCTCCGCTGGAAGATGATCACGGG
GGAGCTGTGTACATTTATCATGGAAGTGGCAAGACTATAAGGAAAGAGTATGCACAACGTATTCCATCAGGTGGG
GATGGTAAGACACTGAAATTTTTTGGCCAGTCTATCCACGGAGAAATGGATTTAATGGTGACGGTCTGACAGAT
GTGACTATTGGGGCCTTGGTGGTGTGCTGCCCTCTTCTGGTCCCGAGATGTGGCCGTAGTTAAAGTGACCATGAAT
TTTGAGCCAAATAAAGTGAATATTCAAAGAAAACACTGCCATATGGAGGGAAGGAAACAGTATGCATAAATGCT
ACAGTGTGTTTTGATGTGAAATTAAAGTCTAAAGAAGACACGATTTATGAAGCTGATTTGCAGTACCGTGTCAAC
CTAGATTTCACTAAGACAAATATCACGAAGTTTTTCTCTGGAACCTCAAGAGAGAAAGGTTCAAAGGAACATCACA
GTTGCAAAATCAGAAATGCACTAAGCACTCCTTCTACATGTTGACAAGCATGACTTTCAGGACTCTGTGAGAAATAA
CGTTGGACTTTAATCTTACCGATCCAGAAAATGGGCTGTTCTTGATGATTCTCTACCAAACCTCAGTACATGAAT
ATATTCCCTTTGCCAAAGATTGTGGAAATAAGGAAAAATGTATCTCAGACCTCAGCCTGCATGTGCCACCACTG
AAAAGGACCTGCTGATTGTCCGATCCCAGAATGATAAGTTCAACGTTAGCCTCACAGTCAAAAATACAAAGGACA
GTGCCTATAACACCAGGACAATAGTGCAATTATTCTCCAAATCTAGTTTTTTCAGGAATTGAGGCTATCCAAAAAG
ACAGTTGTGAATCTAATCATAATATCACATGTAAAGTTGGATATCCCTTCCTGAGAAGAGGAGAGATGGTAACTT
TCAAAATATTGTTTCAGTTTAAACACATCCTATCTCATGGAATGTGACCATTTATTTAAGTGCAACAAGTGACA
GCGAAGAACCTCTGAAACCTTTCTGATAATGTAGTAAACATTTCTATCCCGGTAAAATATGAAGTTGGACTAC
AGTTTTACAGCTCTGCAAGTGAATACCACATTTCAATTGCTGCCAATGAGACAGTCCCTGAAGTTATTAATTCTA
CTGAGGACATTGGAATGAAATTAATATCTTCTACTTGATTAGAAAAAGTGGATCTTTTCCAATGCCAGAGCTTA
AGCTGTCAATTTCAATCCCAATATGACATCAAATGGTTACCCTGTGCTGTACCCAACCTGGATTGTCTCTCTG
AGAATGCAAACTGCAGACCCCATATCTTTGAGGATCCTTTCAATGATCAACTCTGGAAGAAAATGACTACATCAA
CTGACCATCTCAAACGAGGCACAATTCTGGACTGCAATACATGTAAATTTGCTACCATCACATGTAATCTCACTT
CTTCTGACATCAGCCAAGTCAATGTTTCGCTTATCTTGTGGAAACCACTTTTATAAAATCATATTTTCCAGCT

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FIGURE 1588B

TAAATCTTACTATAAGGGGAGAACTTCGGAGTGAAAATGCATCTCTGGTTTTTAAGTAGCAGCAATCAAAAAAGAG
AGCTTGCTATTCAAATATCCAAAGATGGGCTACCGGGCAGAGTGCCATTATGGGTCATCCTGCTGAGTGCTTTTG
CCGGATTGTTGCTGTTAATGCTGCTCATTTTAGCACTGTGGAAGATTGGATTCTTCAAAAGACCACTGAAAAAGA
AAATGGAGAAATGAAATATTTTATGAAAGAAAATAATAACAATTATTCAATAATCTATCCTCAGGTTTGCCCTCAA
ATATGTGACAAGAAATGTATAATTCATGACATAGTCATGTAACATATGTAATCCATCAGGGATTCACTACTTGGA
AATGACAGGTCATGCATTATCCAAAAACAATACCAAAAAGACATATTTTATAAAATGACAAAAAATATTTTACAT
AATTACTCATTTTTGTTGAGTAAGCAAAATTACAAAGTGTTTTTAAAAAACCTGTACAAATATGTTTATGTATT
AAATCACCATCCAAATATTTAAGGAATATATAAAAAGATTTTTATGATCATAGAAACATCTATTTTCAAAAACAA
TATAAATTAAGCTTTTCCCCTTGATTCTGTGGATATCCATGTTGAGCATGACAGTCAGCACTCGTAAATGCCA
AGAAAAGAATTACCTGAAAAAGATCATTTCTCCCTATTCAAATGAGAATATTTTCCCTTGGTAGAATCCATATAC
AATATGGATTGAAAATTAAGTCACCAAGAATACATTTAGCATCTTTGTGTTGGGTTCTATACCTAAAAATTTTCC
CTCCCTGCCCAAGGTGATTGGAAGTACTGCAATTGAGCTAAAATTTTATCTAGGATGGAAAATCAGGATAGACT
CGTTTTAAAAACAAGTATATTTAAATGGGTTAAATTAAGCTTTTACAGAACATGCTTAATTTTGATATTGAGCTCTA
AATGCAAAACTCTTTTATACTGAAAAAACACTTAAAGTAGTTTTGTGTGGCATCACAGTGAAATTTGTCTGAAAAG
CCATATATGGGGGACATGCTAAAATGGCTTCTGAATGAAATACGACAGCAGAGAAAGATGCCACTGAAATGCTGA
AATTATCTTTGCTGAGCAGCTTTTGAATGCTAAGGGTCCAGTATGTGACCCAAAGAAAGAGTTGTCTCAACTCC
TTGGTACAGGGTTTCATTCAAACCCCAAGCTGTGAGAGTGTTTATTTTAAATTTTAAAGGTATTTAATTT
CCAACCACACTTCTTATTTTTTTGAAAAGACAATTTTCCATTTAGTATTACATTTTACCAAGAAGTCTACTGCTT
TTTAGGTGTGTGTCATATTTAAATAAAATCCAGAAATGTATTTTAAAGAAATTCAGGTTTGAAAACCTCAA
ACCAACAGGAAGATCACACCTTTGTATGTGCTTCTTTGTTCTGAAGTAGTCATTATGGTTTCATTGGAATCTA
CTGTAGCATAAGCTCCTAGGTTGCTCCATTTCTTAGGAAAATAGCAATGAATGAATGTATAGTAGCTGCATGTGT
GAACTACTGCTGTAAAGTTTTGCTGACATTTCTGCAACAACATTTCTCCATCTGATTTACCAGAACCTGTAACAAG
ACCAGAACATGTATTATCCAGAAACTCCTGGGCTCTGCTTTGTTCAAAGAGGAGCAAATCCACATAGAAATTA
ATGTTATAAATTTATTTTTTTTAACTAATTTCCAAAGAATTTAGCTGAAGACTCAGAGTCAGCCTACCTCTTGAC
TCTCCACATCCGCATCTAAGATCCTGAAGGCCAAAGGAATGCGCCTGTGGGATGCCAAAGCCATCAGTAGCTGGA
AGAAAGAATACCTCTTTCTAGAGGTTTGGTGTCTCTTGTGCGCTGTGCTATTATTGGAAATACGCGCTTTTGGA
ATTTCTTTCATTTTCGCTATTTCCAGGTTTCAGAAATCATACCTACCACTTGTTCTTTCTTTGCCAGTAAAACTC
AGGGTTTCTCTTATTACAGAGTTACCATGTTGCACACCCCAAGTGTGCTCAGCCTGCCAGAGCCCTTCTCTGATCT
CAGCAAGATCTTAGTAGTAAAGCTAACGGATCCATTGAAATTCATACTCAGCATCTGTGACTACTAGACAAAGCC
CATTTACTGAACCATAAGTGTGCACCTTTTAACTAAATTTGTTAACTGAAAGGGAAAAAATAGAAATGAGGGCATT
TTGAAGTTTTTAGAAAAGAGAGGAAGAGCTGTTGGCCAGATCAAAGAGATACTTATAAGCCCGGCACAAATTTTA
ACATAAGTCATTCTGCTATTAAAGTAAATATTTTCATGAACCAGAGTCCTGTTTCTCTAATATTATAATTTGT
TGAGGTTTGTGTGTGTGTGTGTGTCATGTGCAGACACATGTACACATATAAATTGAATACAAAAATAGCTCTAT
AACACCAAAAAACAGAGTTTACAGAAAATAAACACAAAAGCTATATCTGCAAGACAAGTTTGATTCTACTAGTTT
CATATAGTTTCATATAGTTTCATTTTTATTAATATTTAGGTTTAACTTATAGTTCTGCAATTATTTAAAAACAA
GTACAGAGCGTTTGATTAAAAAAGTCAACAAATGTTTCAAAACAGCTTTGTACAAATGTTATAAACATATTTA
ATGATTAAGAAATGTACTAGACTCTATCATTTACTTTTTAAACATTTAATTAGAAAAACAGGTGATATTTAAGAC
TATTTATAAACTTATTGGCCAAATTGCCAAAAA

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FIGURE 1589

MAPRPRARPGVAVACWLLTVVLRCCVSFNVDVKNSMTFSGPVEDMFGYTVQQYENEEGKWVLIGSPLVGQPKNR
TGDVYKCPVGRGESLPCVKLDLPVNTSIPNVTEVKENMTFGSTLVNPNNGGFLACGPLYAYRCGHLHYTTGICSD
VSPTFQVVNSIAPVQECSTQLDIVIVLDGSNSIYPWDSVTAFLNDLLERMDIGPKQTQVGIVQYGENVTHEFNLN
KYSSTEEVLVAAKKIVQRGGRQTMALGIDTARKEAFTEARGARGVKKVMVIVTDGESHDNHLKKVIQDCEDE
NIQRFSAIALGSYNRGNLSTEFVEEIKSIASEPTTEKHFFNVSDALVTIVKTLGERIFALEATADQSAASFEM
EMSQTGFSAHYSQDWVMLGAVGAYDWNGTVVMQKASQIIIPRNTTFNVESTKKNEPLASYLGTVNSATASSGDV
LYIAGQPRYNHTGQVIIYRMEDGNIKILQTLSGEQIGSYFGSILTTTDDIDKDSNTDILLVGAPMYMGTEKEEQGK
VYVYALNQTRFEYQMSLEPIKQTCCSSRQHNSCTTENKNEPCGARFGTAIAAVKDLNLDGFNDIVIGAPLEDDHG
GAVYIYHGSGKTIRKEYAQRIPISSGGDGKTLKFFGQSIHGEMDLNGDGLTDVTIGGLGGAALFWSRDVAVVKVTMN
FEPNKVNIQKKNCHMEGKETVCINATVCFDVKLKSKEDEIYADLQYRVTLDSLRLQISRSFFSGTQERKVQRNIT
VRKSECTKHSFYMLTSMTFRTL

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FIGURE 1590

GTGTAGGGGTAGATTTTCGCTGCAGTGTTCCCCGAGCCTGTTAGACGCAGCGCGCCGGGAGACTGAGAGAGGAAA
GGATAGAGGAAGTGCTGCCCTAGGCTGCATGAGTCGAAGCAAGCGTGTTCCTTCCCGCCAGGCAAGTGCCCTTA
GAAACCGGGCCCCCCCCCTTCCTGGCCTGCATTCCCATCCCCTCTCCCGGGGCGGAGGTGAGGACCTCCTTGGT
TCCTTTGGTTTCTGTCAGTGAGCCCCCTTCCTTGGCCATGAAGCTCGTGAGGAAGAATCGAGAAGGACAATGCGG
GCCAGGTGACCCTGGTCCCCGAGGAGCCTGAGGACATGTGGCACACTTACAACCTCGTGCAGGTGGGCGACAGCC
TGCGCGCCTCCACCATCCGCAAGGTACAGACAGAGTCCTCCACGGGCAGCGTGGGCAGCAACCGGTCCGCACTA
CCCTCACTCTCTGCGTGGAGGCCATCGACTTCGACTCTCAAGCCTGCCAGCTGCGGGTTAAGGGGACCAACATCC
AAGAGAATGAGTATGTCAAGATGGGGGCTTACCACACCATCGAGCTGGAGCCCAACCGCCAGTTCACCTTGCCCA
AGAAGCAGTGGGATAGTGTGGTACTGGAGCGCATCGAGCAGGCCTGTGACCCAGCCTGGAGCGCTGATGTGGCGG
CTGTGGTCATGCAGGAAGGCCTCGCCCATATCTGCTTAGTCACTCCAGCATGACCCTCACTCGGGCCAAGGTGG
AGGTGAACATCCCTAGGAAAAGGAAAGCAATTGCTCTCAGCATGACCGGGCCTTGGAGCGGTTCTATGAACAGG
TGGTCCAGGCTATCCAGCGCCACATACACTTTGATGTTGTAAAGTGCATCCTGGTGGCCAGCCAGGATTTGTGA
GGGAGCAGTTCTGCGACTACCTGTTTCAACAAGCAGTGAAGACCGACAACAACTGCTCCTGGAAAACCGGTCCA
AATTTCTTCAGGTACATGCCTCCTCCGGACACAAGTACTCCCTGAAAGAGGCCCTTTGTGACCTACTGTGGCTA
GCCGCCTTTCAGACACTAAAGCTGCTGGGGAAGTCAAAGCCTTGGATGACTTCTATAAAATGTTACAGCATGAAC
CGGATCGAGCTTTCTATGGACTCAAGCAGGTGGAGAAGGCCAATGAAGCCATGGCAATTGACACATTGCTCATCA
GCGATGAGCTCTTCAGGCATCAGGATGTAGCCACACGGAGCCGGTATGTGAGGCTGGTGGACAGTG1GAAAGAGA
ATGCAGGCACCGTTAGGATATTCTCTAGTCTTCACGTTTCTGGGGAACAGCTCAGCCAGTTGACTGGGGTAGCTG
CCATTCTCCGCTTCCCTGTTCCCGAACTTTCTGACCAAGAGGGTGATTCCAGTTCTGAAGAGGATTAATGATTGA
AACTTAAAATTGAGACAATCTTGTTGTTTCCCTAAACTGTTACAGTACATTTCTCAGCATCCTTGTGACAGAAAGCT
GCAAGAATGGCACTTTTTGATTATACAGGGATTCTTATGTCTTTGGCTACACTAGATATTTTGTGATTGGCAA
GACATGTATTTAAACAATAAACTA

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FIGURE 1591

CTTCCCTTTTGCGGCTATCACCGAAGCAGGAGTGGCCAAAATGAAGTTTAATCCCTTTGTGACTTCGACCGAAG
CAAGAATCGCAAAAGGCATTTCAATGCACCTTCCCACATTGGAAGGAAGACTATGTCTTCCCTCTTTCCAAAGA
GCTGAGACAGAAGTACAACGTGTGATCCATGCCCATCCGAAAGGATGATGAAGTTCAGGTTGTACATGGACACTA
TAAAGGTCAGCAAATTGGCAAAGTAGTCCAGGTTTACAGGAAGAAATATGTTATCTACATTGAACGGGTGCAGCG
GGAAAAGGCTAATGGCACAACGTGTCCACGTAGGCATTACCCCAGCAAGGTGGTTATCACTAGGCTAAAACCTGGA
CAAAGACTGTGAAAAGATCCTTGAACGGAAAGCCAAATCTTGCCAAGTAGGAAAGGAAAAGGGCAAATACAAGGA
AGAAACAATTGAGAAGATGCAGGAATAAAGTAATCTTATATACAAGCTTCGATTAAACCTTGAAACAAAGAAAAA

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FIGURE 1592

GC GCGCGGCTCCGCTGGGAAGCGAGACCCGGGTGGCGGGACAAGACTTGCTTCCCGGCCACGCGCGCTCGGCCGG
CCGTGGGGCGGGGCATAGGCCGTGACGTGATGTCGCGTATCGAGTCTCCGCCCCCTTCCCGCCTCCCCGTATATA
AGACTTCGCCGAGCGCTCTCACTCGCACAAAGTGGACCGGGGTGTTGGGTGCTAGTCGGCACCAGAGGCAAGGGTG
CGAGGACCACGGCCGGCTCGGACGTGTGACCGCGCCTAGGGGGTGGCAGCGGGCAGTGGCGGGCGGCAAGGCGAC
CATGGAGCTTTTGGGACTATCACCTACCAGCCAGCCGCCAGCACCAAAATGTGCGAGCAGGCGCTGGGCAAGGG
TTGCGGAGCGGACTCGAAGAAGAAGCGGCCGCCGAGCCCCCGAGGAATCGCAGCCACCTCAGTCCCAGGCGCA
AGTGCCCCCGGCGGCCCTCACCACCATCACCACATTTCGACTCGGGGCCGGAGATCTCGCGGATTATCGTCTGA
CCCCAGACTGGGAAGCGCTACTGCCGGGGCAAAGTGCTGGGAAAGGGTGGCTTTGCAAAATGTTACGAGATGAC
AGATTTGACAAATAACAAAGTCTACGCCGCAAAAATTATTCCTCACAGCAGAGTAGCTAAACCTCATCAAAGGGA
AAAGATTGACAAAGAAATAGAGCTTCACAGAATTCTTCATCATAAGCATGTAGTGCAGTTTTTACCCTACTTCGA
GGACAAAGAAAACATTTACATTCTCTTGAATACTGCAGTAGAAGGTCAATGGCTCATATTTTGAAAGCAAGAAA
GGTGTGACAGAGCCAGAAGTTCGATACTACCTCAGGCAGATTGTGTCTGGACTGAAATACCTTCATGAACAAGA
AATCTTGACAGAGATCTCAAAGTGGGAACTTTTTATTAATGAAGCCATGGAATAAAAGTTGGGGACTTCGG
TCTGGCAGCCAGGCTAGAACCCTTGGAACACAGAAGGAGAACGATATGTGGTACCCCAAATTATCTCTCTCTGA
AGTCTCAACAAACAAGGACATGGCTGTGAATCAGACATTTGGGCCCTGGGCTGTGTAATGTATACAAATGTTACT
AGGGAGGCCCCCATTTGAAACTACAAATCTCAAAGAACTTATAGGTGCATAAGGGAAGCAAGGTATACAAATGCC
GTCCTCATTTGCTGGCTCCTGCCAAGCACTTAATTGCTAGTATGTTGTCCAAAACCCAGAGGATCGTCCCAGTTT
GGATGACATCATTGACATGACTTTTTTTTGCAGGGCTTCACITCCGACAGACTGTCTTCTAGCTGTTGTCTATAC
AGTTCAGATTTCCACTTATCAAGCCCAGCTAAGAATTTCTTTAAGAAAGCAGCTGCTGCTCTTTTGGTGGCAA
AAAAGACAAAGCAAGATATATTGACACACATAATAGAGTGTCTAAAGAAGATGAAGACATCTACAAGCTTAGGCA
TGATTTGAAAAGACTTCAATAACTCAGCAACCCAGCAAAACACAGGACAGATGAGGAGCTCCAGCCACCTACCAC
CACAGTTGCCAGGTCTGGAACCCCGCAGTAGAAAACAAGCAGCAGATTGGGGATGCTATTCGGATGATAGTCAG
AGGGACTCTTGGCAGCTGTAGCAGCAGCAGTGAATGCCTTGAAGACAGTACCATGGGAAGTGTGTCAGACACAGT
GGCAAGGGTTCTTCGGGGATGTCTGGAAAACATGCCGGAAGCTGATTGCATTCCCAAAGAGCAGCTGAGCACATC
ATTTAGTGGGTACCAAATGGGTGATTACTCTAACAAATATGGCTTTGGGTACCAGCTCTCAGACCACACCGT
CGGTGTCCTTTTCAACAATGGTGCTCACATGAGCCTCCTTCCAGACAAAAACAGTTCCTACTATTACGCAGAGCT
TGGCCAATGCTCAGTTTTTCCAGCAACAGATGCTCCTGAGCAATTTATTAGTCAAGTGACGGTGCTGAAATACTT
TTCTCATTACATGGAGGAGAACCTCATGGATGGTGGAGATCTGCCTAGTGTACTGATATTCGAAGACCTCGGCT
CTACCTCCTTCAGTGGCTAAAACTGATAAGGCCCTAATGATGCTCTTTAATGATGGCACCTTTTCAAGGTGAATTT
CTACCATGATCATACAAAATCATCATCTGTAGCCAAAATGAAGAATACCTTCTCACCTACATCAATGAGGATAG
GATATCTACAACCTTCAGGCTGACAACCTCTGTGATGTCTGGCTGTTTCATCAGAATTAATAAATCGAATGGAATA
TGCCCTGAACATGCTCTTACAAAGATGTAACCTGAAAGACTTTTCGAATGGACCTATGGGACTCCTCTTTTCCAC
TGTGAGATCTACAGGGAACCCAAAAGAATGATCTAGAGTATGTTGAAGAAGATGGACATGTGGTGGTACGAAAAC
AATTCCTCTGTGGCTGCTGGACTGGGTGGAACCAGAACAGGCTAAGGCATACAGTCTTTGACTTTGGACAATCC
AAGAGTGAAACGAGAATGCAGTTTTCTTGAGATACCTGTTTTTAAAGGTTTTTTCAGACAATTTTGAGAAAGGTG
CATTGATTCTTAAATTCTCTCTGTTGAGAGCATTTCAGCCAGAGGACTTTGGAAGTGTGAATATACTTCTCTGAAG
GGGAGGGAGAAAGGAGGAAGCTCCCATGTTGTTTTAAAGGCTGTAATTGGAGCAGCTTTTGGCTGCGTAACGTGTA
ACTATGGCCATATATAATTTTTTTTTCATTAATTTTTGAAGATACTTGTGGCTGGAAAAGTGCATTCTTGTTAAT
AAACTTTTTTATTATTACAGCCCAAAGAGCAGTATTTATTATCAAAATGTCTTTTTTTTTTATGTTGACCATTTTA
AACC GTTGGCAATAAAGAGTATGAAAACGC

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FIGURE 1593

ATGGAAGGCATCACCGCTGTCACGGTCAACCAGAGCCTGCTGAACTCCCTTAACTGGAGATGGACTCCAGCATCC
AGGAGACCACACCCAGGAGAAGAACCAGATCAAGACACTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTACA
GTTCTTGGAGCAGCAGAACAAAGATGCTGGAGACCAACTGGAGCCTCCTGCAGCAGGAGAAGATGGCTCGGAGCAA
CATGGACAACATGAGAAGCTGAAGCTGGAGGCGGAAC TTGGCAACATGCAGGGGCTGCTGGAGGACTTCAAGAAC
AAGTATGAGGATGAGATCAATAAGCGTACAGGGATGGAGAATGAATTTTCTCATCAAGAAGGATGTGGATAAA
GCTTACATGACAAGGCAGCTGTATGAAGAGGAGATCCAGGAGCTGCAGTCCCAGATCTCGGACACGCTCTGTGGTG
CTGTCCATGGACAACAGCCGCTCCCTGGACATACGTGGGGAGCTGGCCGATAAGGATGCCAACGCCAAGCTGTCT
GAGCTGGAGGCCGCCCTGCAGTGGACCAAGCAGGACATGGGCGGCAGCTGCCTGCTGGAGGGCGAGGAGAGCCGG
CTGGAGTCTGGGATGCAGAACATGAGTATCCGTACGAAGACCACCAGCGGCTATGCAGGTGGTCTGAGCTCGACC
TATGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCTCCAGTTTTGGCTCTGGTGCGGGCTCCTGCGCT
TTCAGCCGCACCTGCTCCATCAGGGCCATGATTGTGAAGAAGATTGAGACCCACGATGGGAAGCTGGTGTCCGAG
TCCTCTGACGTCCTGCTCAAGTGA

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FIGURE 1594

MEGITAVTVNQSLNLSLNWRWTPASRRPHPGEEPDDDTQQQVCLLHRQGTVPGAEEQDAGDQLEPPAAGEDGSEQ
HGQHEKLEAEELGNMQGLLEDFKNKYEDEINKRTGMENEFFLIKDVVKAYMTRQLYEEIQLQSQISDTSVV
LSMDNSRSLDIRGELADKDANAKLSELEAALQWTKQDMGGSCLEGEESRLESGMQNMSIRTKTTSYGAGGLSST
YGGLTSPGLSYGLGSSFGSGAGSCAFSRTC SIRAMIVKKIETHDGKLVSESSDVLLK

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FIGURE 1595

GTTGAAGGAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCGATGCATTCCAGCCTTGGACTCATTGACTCCA
GCTAATGAAGATCAAAAAATTGGTATGGAAATTGTTAAAAGAACTCAAAATCCAGCAATGACCACTGCTACG
AATGCAGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAATTCCTCAGAAGTTGGTTATGATGCTATG
GTTGGAGATTTTATGAATATGGTAGAAAAAGGAATTATTGACCAACAAAGCTTGTGAGAACTGCTTTATTGGAT
GCTGCTGGTGTGGCCTCTCTGTAACTACAGCAGAAGTTGTAGTCACAGAAATTCCTAAAGAAGAGAAGGACCCT
GGAATGGGTGCAATGGGTGGAATGGGAGGTGGTATGGGAGGTGGCATGTTCTAACTCCTAGACTAGTGCTTTACC
TTTATTAATGAACGTGTGACAGGAAGCCCAAGGCAGTGTTCCTCACCAATAACTTCAGAGAAGTCAGTTGGAGAAA
ATGAAAAATATATAATGGTTTACTGCTGTCATTGTCCATGCCTACAGATAATTTATTTTGTATTTTGAATAAAA
AACATTTGTACATTCCTGATACTGGGTACAAGAGCCATGTACCAATGTACTGCTTT

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FIGURE 1596

ACCTGTCTCGCCGCGCGCATGCCCTGCAGCCGCCCCACAGAAATGCTTCGGTTACCCACAGTCTTTCGCCAGATG
AGACCAGTGTCCAGGGTACTGGCTCCTCATCTCACTCGAGCTTATGCCAAAGATGTAAATTTGGTGCAGATGCC
CGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGTTACAATGGAGCCAAAGGGAAGAACA
GTGATTATTGAGCAGAGCTGGGGAAGTCCCAACGTAACAAAAGATGGTGTGACTGTTGCAAAGTCAATTGACTTG
AAGGATAAATATAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAATAACACAAATTGAAAAACGTATTCA
AGAAATCATTGGGCAGTTAGATGTCACAACTAGTGAATATGAAAAGGAAAACTGAATGAATGGCTGGCAAACT
TTCAGATGGAGTAGTTGTGCTGAAGTTTGGTGGGACAAGTGATGTTGAAGTGAATGAAAAGAAAGACAGAGTTAC
AGATGCCCTTAATGCTACAAGAGCTGCTGTTGAAGGAGGCATTGTTTTGGGAGGGGGTTTTGCCCTCCTTCGATG
CATTCCAGCAATGACCACTGCTACGAATGCAGGTGTTGAAGGATCTTTGATAGTTGAGAAAATTATGCAAAATTC
CTCAGAAGTTGGTTATGATGCTATGGTTGGAGATTT

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FIGURE 1597

CTCTGTCCCTCACTCGCCGCCGACAACCTGTCTCGCCGCGCGCATGCCCTGCAGCCGCCCCACAGAAATGCTTCG
GTTACCCACAGTCTTTTCGCCAGATGAGACCAGTGTCCAGGGTACTGGCTCCTCATCTCACTCGAGCTTATGCCAA
AGATGTAAATTTGGTGCAGATGCCCCGAGCCTTAATGCTTCAAGGTGTAGACCTTTTAGCCGATGCTGTGGCCGT
TACAATGGAGCCAAAGGGAAGAACAGTGATTATTGAGCAGAGCTGGGGAAGTCCCAACGTAAACAAAAGATGGTGT
GACTGTTGCAAAGTCAATTGACTTGAAGGATAAATATAAAAAACATTGGAGCTAAACTTGTTCAAGATGTTGCCAA
TAACACAAATGAAGAACTCTGGGGATGGCACTACCACTGCTACTGTACTGGCAGGCTCTATAGCCAAGGAAGGCTT
CCAGAAGATTAGCAAAGGTGCTAATCCAGTGGAAATCAGGAGAGGTGTGATGTTAGCTGTTGATGCTGTAATTGC
TGAACCTAAAAAGCAGTCTAAACCTGTGACCACCCCTGAAGAAATTGCACAGGTTGCTATGATTTCTGCAAATGG
AGACAAAGAAATTGGCAATATCATCTCTGATGCAATGAAAAAGGTTGGAAGAAAGGGTGTATCACAGTAAAGGA
TGAAAAACACTGAATGATGAATTAGAAATTATTGAAGGCATGAAGTTTGATTGAGGGTATATTTCTCCATACTT
TATTAATACATCAAAAGGTGAGAAATGTGAATTCCAGGATGCCTATGTTCTGTTGAGTGAAAAGAAAATTTCTAG
TGTCCAGTCCATTGTACCTGCTCTTGAAATTGCCAATGCTCACCATAAGCCTTTGGTGATAATCGCTGAAGATGT
TGATGGAGAAGCTTAAGTACACTCATCTTGAATAGGCTAAAGGTTGGTCTTCAGGTTGTGGCAGTCAAGGCTCC
AGGGTTTGGTGACATAGAAAGAACCAACTTAAAGATATGGCTATTGCTACTGGTGGTGCAGTGTTTGGAGAAGA
GGGGTTGACCCTGAATCTTGAAGATGTTGAGCCTCATGACTTAGGAAAAGTTGGAGAGGTGATTGTGACCAAAGA
CGATGCCATGCTCTTAAAAAGGAAAAGGTGACAAGGCTCAACTTGAAAAACGTATTCAAGAAATCATTGGGCAGTT
AGATGTCACAACTAGTGAATATGAAAAGGAAAACTGAATGAATGGCTGGCAAACTTTTCAGATGGAGTAGTTGT
GCTGAAGTTTGGTGGGACAAGTGATGTTGAAGTGAATGAAGGCATTGTTTGGGAGGGGGTTTGGCCCTCCTTCG
ATGCATTCCAGCCTTGACTCATTGACTCCAGCTAATGAAGAT

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FIGURE 1598

ACGAACAGGCCAATAAGGAGGGAGCAGTGCAGGGGTTTAAATCTGAGGCTAGGCTGGCTCTTCTCGGCGTGCTGCG
GCGGAACGGCTGTTGGTTTCTGCTGGTTGTAGGTCTTGGCTGGTCGGGCCCTCCGGTGTTCTGCTTCTCCCCGCT
GAGCTGCTGCCTGGTGAAGAGGAAGCCATGGCGCTCCGAGTCACCAGGAACTCGAAAATTAATGCTGAAAATAAG
GCGAAGATCAACATGGCAGGCGCAAAGCGCGTTCTACGGCCCCTGCTGCAACCTCCAAGCCCGGACTGAGGCCA
AGAACAGCTCTTGGGGACATTGGTAACAAAGTCAGTGAACAACTGCAGGCCAAAATGCCTATGAAGAAGGAAGCA
AAACCTTCAGCTACTGGAAGATCATTGATAAAAACTACCAAACCTCTTGAAGAGGTACCTATGCTGGTGCCA
GTGCCAGTGTCTGAGCCAGTGCCAGAGCCAGAACCTGAGCCAGAACCTGAGCCTGTAAAGAAGAAAACTTTTCG
CCTGAGCCTATTTTGGTTGATACTGCCTCTCCAAGCCCAATGGAAACATCTGGATGTGCCCCCTGCAGAAGAAGAC
CTGTGTGCTAGGCTTTTCTCTGATGTAATTCTTGCACTAAATGATGTGGATGCAGAAGATGGAGCTGATCCAAACCTT
TGTAAGTGAATATGTGAAAGATATTTATGCTTATCTGAGACAACTTGAGGAAGAGCAAGCAGTCAGACCAAATAC
CTACTGGGTGCGGAAGTCACTGGAAACATGAGAGCCATCCTAATTGACTGGCTAGTACAGGTTCAAATGAAATTC
AGGTTGTTGCAGGAGACCATGTACATGACTGTCTCCATTATTGATCGGTTTCATGCAGAATAATTGTGTGCCCCAAG
AAGATGCTGCAGCTGGTTGGTGTCACTGCCATGTTTATTGCAAGCAAATATGAAGAAATGTACCCTCCAGAAATT
GGTGACTTTGCTTTTGTGACTGACAACACTTATACTAAGCACCAAATCAGACAGATGGAAATGAAGATTCTAAGA
GCTTTAACTTTGGTCTGGGTGCGGCCTCTACCTTTGCACTTCCTTCGGAGAGCATCTAAGATTGGAGAGGTTGAT
GTCGAGCAACATACTTTGGCCAAATACCTGATGGAACCTAATGTTGGACTATGACATGGTGCACCTTTCCTCCT
TCTCAAATTGCAGCAGGAGCTTTTGTCTTAGCACTGAAAATTCTGGATAATGGTGAATGGACACCAACTCTACAA
CATTACCTGTCACTACTGAAGAATCTCTTCTCCAGTTATGCAGCACCTGGCTAAGAATGTAGTCATGGTAAAT
CAAGGACTTACAAAGCACATGACTGTCAAGAACAAGTATGCCACATCGAAGCATGCTAAGATCAGCACTCTACCA
CAGCTGAATTCTGCACTAGTTCAAGATTTAGCCAAGGCTGTGGCAAAGGTGTAACCTTGTAACCTTGAGTTGGAGT
ACTATATTTACAAATAAAATTGGCACCATGTGCCATCTGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAA

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FIGURE 1599

MALRVTRNSKINAENKAKINMAGAKRVPTAPAATSKPGLRPRTALGDIGNKVSEQLQAKMPMKKEAKPSATGKVI
DKKLPKPLEKVPMLVPVPVSEPVPEPEPEPEPEPVKEEKLSPPEILVDTASPSMETSGCAPAEEDLCQAFSDVI
LAVNDVDAEDGADPNLCSEYVKDIYAYLRQLEEEQAVRPKYLLGREVTGNMRAILIDWLQVQMKFRLLQETMYM
TVSIIDRFMQNNCVPKKMLQLVGVGTAMFIASKYEEMYPPEIGDFAFVTDNTYTKHQIRQMEMKILRALNFGGLGRP
LPLHFLRRASKIGEVDVEQHTLAKYLMELTMLDYDMVHFPPSQIAAGAFCLALKILDNGEWTPTLQHYLSYTEES
LLPVMQHLAKNVVMVNQGLTKHMTVKNKYATSKHAKISTLPQLNSALVQDLAKAVAKV

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FIGURE 1600

GCTGGCAAGCGCTTCCTGCGCAGCGCCTAGGCGACCTGGAGTTTGTGACGCTGTGATGGTCTAGAGGCTGGAGAT
TCAAGATCTGGGTGCCATCATTTTCTGGTTCTGTTGATGACCTCTTCCAGGTTACATACAGCTTACATCTTGCA
TCCTCAAGCGTTTTTCTTATAAGGCTAAAAATTCACAAAGCATATATCAATGAATCAGGAGGATCTAGATCCGGA
TAGTACTACAGATGTGGGAGATGTTACAAATACTGAAGAAGAACTTATTAGAGAATGTGAAGAAATGTGGAAAGA
TATGGAAGAATGTCAGAATAAATTATCACTTATTGGAACCTGAAACACTCACCGATTCAAATGCTCAGCTATCATT
GTTAATTATGCAAGTAAATGTTTAAACCGCTGAACTCAGTCAATGGCAGAAAAAACACCTGAAACAATTCCCTT
GACTGAAGACGTTCTCATAACATTAGGAAAAGAAGAGTTCCAAAAGCTGAGACAAGATCTTGAAATGGTACTGTC
CACTAAGGAGTCAAAGAATGAAAAGTTAAAGGAAGACTTAGAAAAGGGAACAACGGTGGTTGGATGAACAGCAACA
GATAATGGAATCTCTTAATGTACTACACAGTGAATTGAAAAATAAGGTTGAAACATTTTCTGAATCAAGAATCTT
TAATGAACTGAAAACATAAATGCTTAATATAAAAGAATATAAGGAGAACTCTTGAGTACCTTGGGCGAGTTTCT
AGAAGACCATTTTCTCTGCCTGATAGAAGTGTTAAAAAGAAAAAGAAAAACATTCAAGAATCATCTGTAAACCT
GATAACACTGCATGAAATGTTAGAGATTCTTATAAATAGATTATTTGATGTTCCACATGATCCATATGTCAAAT
TAGTGATTCCTTTTGGCCACCTTATGTTGAGCTGCTGCTGCGTAATGGAATTGCCTTGAGACATCCAGAAGATCC
AACCCGAATAAGATTAGAAGCTTTCCATCAGTAAAAGGATGTTTTCTTTTTTACACAGTAAAAATCTTATCAT
TCAAGGATATTGGAACCACAGGACTATTTGGATAAAAAACATTATTTGCAAATTAATGCGCATAGGCCATCTTAC
TTTTATTGCAAAATGGCATGTGCTGCCATCTATTATTCATTTTTAAATGGTCATTTCTTATTTCAGTGAGTGCTTT
AGTGTTTTAACTATATGGATAAGAATGCAGGTAGATAATATTCTAGGCATAAAACATTTAATGTACCTTACCTC
ATGCAATATTCTTTGGATTCTTTGTTGATTTATGATATTGCTAATATAATATTTCTTAAATATATAACAATAT
CTTTTATGCATTTTGAGTTCAGCTGGTGCTTCTTTATATTTAGAAATTATAATGGGAAGGTCATTTAATTTACA
GATGGTTTTAAATGAGGTAATATCTGAGGTGGCATAATTTAAAAATATTTAGCAAATTTGTTTCATATATACT
GTCTTATTTCTAGATTTGTTTAAATGGAATATGAAAACATAATGATAAAGCTAGCATAAAATTGATATTTTA
GTTTGTATTATTAATATATCATGTACCTTATATATTAATCTACTCTTGATTCTGCTAATTATTACCAACAAAAT
TGATTTCATGACATTTTATTAATCCTCTGTGAATTTCTGTAAATAAAATTTATTTCTGAAAATCTCT

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FIGURE 1601

MNQEDLDPDSTTDVGDVTNTEELIRECEEMWKDMEECONKLSLIGTETLTDSNAQLSLLIMQVKCLTAELSOWQ
KKTPEIPLTEDVLITLGKEEFQKLRODLEMVLSTKESKNEKLKEDLEREQRWLDEQQQIMESLNLHSELKNKV
ETFSESRIFNELKTKMLNIKEYKEKLLSTLGEFLEDHFPLPDRSVKKKKKNIQESSVNLITLHEMLEILINRLFD
VPHDPYVKISDSFWPPYVELLLRNGIALRHPEDPTRIRLEAFHQ

CACGGAAGATGGCGCGGTAGCGGAGGTGTGAGTGGACGCGGGACTCAGCGCCGGATTCTTCTTCCCTCTTT
 TCCCTTTTCTTCCCTATTGTAAATTGGCATCGAGGGGGCTAAGTTTCGGGTGGCAGCGCCGGGCGCAACGCGAGG
 GTCACGGCGCAGCGCGCGCGGCTGACGGCTGGAAGGGTAGGCTTCATTACCGCTCGTCTCTCTTCTCGCTCC
 GCTCGGTGTACAGGCGCGCGCGCGCGCGGGCGGACTTCGTCCCTCTCTCTGCTCCCCCACACCGGAGCGG
 GCACTCTTCGCTTCGCCATCCCCGACCCTTACCCCGAGGACTGGGCGCCTCTCCGGCGCAGCTGAGGGAGCG
 GGGGCCGGTCTCCTGCTCGGTTGTGAGCCTCCATGTCGGATAATCAGAGCTGGAAGCTCGTCGGGCTCGGAGGA
 GATCCAGAGACGGAGTCTGGGCGCCTGTGGAGCGCTGCGGGTCTCAGTAAGTGGACAACTACATTCATGGG
 TGGCAGGATCGTTGGGTAGTTTTGAAAAATAATGCTCTGAGTTACTACAAATCTGAAGATGAAACAGAGTATGGC
 TGCAGAGGATCCATCTGTCTTAGCAAGGCTGTCAACACCTCACGATTTTGATGAATGTCGATTTGATATTAGT
 GTAAATGATAGTGTTTGGTATCTTCGTGCTCAGGATCCAGATCATAGACAGCAATGGATAGATGCCATTGAACAG
 CACAAGACTGAATCTGGATATGGATCTGAATCCAGCTTGCCTCGACATGGCTCAATGGTGTCCCTGGTGTCTGGA
 GCAAGTGGCTACTCTGCAACATCCACCTCTTCATTCAAGAAAGGCCACAGTTTACGTGAGAAGTTGGCTGAAATG
 GAAACATTTAGAGACATCTTATGTAGACAAGTTGACACGCTACAGAAGTACTTTGATGCCTGTGCTGATGCTGTC
 TCTAAGGATGAACTTCAAAGGGATAAAGTGGTAGAAGATGATGAAGATGACTTTCCTACAACGCTTCTGATGGT
 GACTTCTTGATAGTACCAACGGCAATAAAGAAAAAGTTATTTCACATGTGACACCAAAGGAATTAATGGTATA
 GACTTTAAAGGGGAAGCGATAACTTTTTAAAGCAACTACTGCTGGAATCCTTGCAACACTTCTCATTGTATTGAA
 CTAATGGTTAAACGTGAGGACAGCTGGCAGAAGAGACTGGATAAGGAAACTGAGAAGAAAAGAAGACAGAGGAA
 GCATATAAAAATGCAATGACAGAACTTAAGAAAAAATCCACTTTGGAGGACCAGATTATGAAGAAAGCCCTAAC
 AGTCTGATTAATGAAGAAGAGTTCTTTGATGCTGTTGAAGCTGCTCTTGACAGACAAGATAAAATAGAAGAACAG
 TCACAGAGTGAAAAGGTGAGATTACATTGGCCTACATCCTTGCCCTCTGGAGATGCCTTTTTCTTCTGTGGGGACA
 CATAGATTTGTCCAAAAGCCCTATAGTCGCTCTTCTCCATGTCTTCATTGATCTAGTCAGTGCCCTCTGATGAT
 GTTCACAGATTACGCTCCAGGTTGAAGAGATGGTGCAGAACCATGACTTACTCATTACAGGATGTAGGCGGA
 GATGCCAATTGGCAGTTGGTTGTAGAAGAAGGAGAAATGAAGGTATACAGAAGAGAAGTAGAAGAAAATGGGATT
 GTTCTGGATCCTTTAAAAGCTACCATGCGAGTTAAAGGCGTCACAGGACATGAAGTCTGCAATTATTTCTGGAAT
 GTTGACGTTTCGCAATGACTGGGAAACAACCTATAGAAAACTTTCATGTGGTGGAAACATTAGCTGATAATGCAATC
 ATCATTTATCAAACACACAAGAGGGTGTGGCCTGCTTCTCAGCGAGACGTAATTATATCTTTCTGTCATTGCAAAG
 ATACCAGCCTTGACTGAAAATGACCTGAAACTTGGATAGTTTGTAAATTTTCTGTGGATCATGACAGTGCTCCT
 CTAACAACCGATGTGTCCGTGCCAAAATAAATGTTGCTATGATTTGTCAAACCTTGGTAAGCCACCAGAGGGGA
 AACCAGGAAATTAGCAGGGACAACATTCTATGCAAGATTACATATGTAGCTAATGTGAACCCTGGAGGATGGGCA
 CCAGCCTCAGTGTTAAGGGCAGTGGCAAAGCGAGAGTATCCTAAATTTCTAAACGTTTTACTTCTTACGTCCAA
 GAAAAAAGTGCAGGAAAGCCTATTTTGTTAGTATTATAACAGGTACTAGAAGATAATGTTTTATCTTTTTTTAACT
 TTATTTGACTAATATGACTGTCAATACTAAATTTAGTTGTTGAAAGTATTACTATGTTTTT

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FIGURE 1603

MSDNQSWNSSGSEEDPETESGPPVERCGVLSKWTNYIHGWQDRWVVLKNNALSYYKSEDETEYGCRGSICLSKAV
ITPHDFDECRFDISVND SVWYLRAQDPDHRQQWIDAIEQHKTESGYGSESSLRRHGSMVSLVSGASGYSATSTSS
FKKGHSLREKLAEMETFRDILCRQVDTLQKYFDACADAVSKDELQRDKVVEDDEDDFPTTRSDGDFLHSTNGNKE
KLFPHVTPKGINGIDFKGEAITFKATTAGILATLSHCIELMVKREDSWQKRLDKETEKRRTEEAYKNAMTELKK
KSHFGGPDYEEGPNSLINEEEFFDAVEAALDRQDKIEEQSQSEKVR LHWPTSLPSGDAFSSVGTHRFVQKPY SRS
SSMSSIDLVSASDDVHRFSSQVEEMVQNHMTYSLQDVGGDANWQLVVEEGEMKVYRREVEENGIVLDPLKATHAV
KGV TGHEVCNYFWNV D VRNDWETT IENFHVETLADNAII IYQTHKRVWPASQRDVLYLSVIRKIPALTENDPET
WIVCNFSVDHDSAPLNNRCVRAKINVAMICQTLVSPPEGNQEISRDNILCKITYVANVNP GGWAPASVLR A VAKR
EYPKFLKRETSYVQEKTAGKPILF

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FIGURE 1604

AGTACAATCTGCTGCCAGGACCTGGACATTGACAGATAAAATGAAGTGGGTCAGTTAACTACAGAGGGAAGAAT
ATGAAGAACTGCTTCATTATGCTATAGTGACTCCAAATATTGAACCCCTGTGCTTCACAGTCATCTCATCCTAAGG
GAGAATTGGTGCCAGATGTCAGAATTTCTACAATTCATGATATTCTTCATAGTCAAGGAAATAACTCTGAAGTAA
GAGAACTGCAATAGAAGTTGGAAAAGGATGTGATTTCCATATTTCAAGTCATTCAAAGACAGATGCTACAACCT
TTCTTTTATTCAGAGTCATCACCAGTGTTATCGCCAAGGAAGCCTTCTCACCAGTCATGGATTTTTTTCAGTTCA
CATCTTTTAGCTGACTCTTCCTCACCAGCAACAAATTCTAGTCATACAGATGCCCATGAAATACTTGTGAGCGAT
TTTCTTGTTTCTGATGAAAACCTTCAGAAGATGGAAAATGTGCTTGATCTTTGGAGTTCAGGTCTTAAGACAAAC
ATCATATCTGAACTAAGTAAATGGAGACTTAATTTTATTGACTGGCACC GAATGGAAATGAGAAAAGAGAAAGAA
AAACATGCAGCACATTTAAACAACCTGTGTAATCAGATCAATGAATTGAAGGAGCTGCAAAAACCTTTGAAATC
TCCATTGGGAGAAAAGATGAGGTGATTCTAGCTTGTCTCATGCCATAGGCAAGCAAAAGGAAAAGATAGAGTTG
ATGAGAACATTCTTCCACTGGCGAATCGGCCATGTCAGAGCCAGACAGGATGTTTATGAAGGTAAACTAGCTGAC
CAGTACTACCAGAGAACTTTACTGAAGAAAGTCTGGAAAGTCTGGCGTTCCGTAGTGCAAAAGCAGTGGAAGAT
GTGGTAGAAAGAGCTTGTCAAGCAAGAGCTGAAGAAGTTTGTATCCAGATTTCCAATGATTATGAAGCCAAAGTT
GCTATGTTATCTGGAGCTTTGGAAAATGCAAAAGCTGAGATTCAAAGAATGCAACATGAAAAGAGCACTTTGAA
GATTCCATGAAAAAGCTTTTCATGAGGGGTGTATGTGCATTAAATCTTGAAGCCATGACTATATTTCAAACAGA
AATGATGCAGCTCCTCCGATGCCCTTACCAGTTACATCACCAGTGTGCCATCCCCACCAGCCGCGTCGGAGGA
GCCAGCGGACTGCCGTTCCCTCAGCTGCTTCGATGACTTCTACCAGGGCTGCTTCCGCATCTTCTGTTACGTT
CCTGTTTCTGCTCTTGGTGCAGGATCTGCAGCTACTGCTGCATCAGAAGAAATGTATGTGCCAAGAGTTGTAACC
TCTGCACAACAGAAAGCAGGAAGAACTATTACAGCCCGGATCACAGGAAGATGTGATTTTGCTTCAAAAAATAGA
ATTAGCAGCAGTTTAGCTATAATGGGAGTTTCTCCTCCCATGAGCTCAGTTGTTGTGGAAAACATCATCCAGTC
ACAGTGCAAAACCATTCCTCAAGCAACTGCAGCAAAATATCCCCGGACCATTATCCTGAAAGTAGTACCTCAGCT
TCCAGATCACTTGGAACCAGATCAGCTCACACCCAGTCTCTCACAAGTGTTCATTCCATAAAAGTGGTTGACTAA
AGTGAATATGTCCATAGTGGGGTCTTTTAATCCCTCTGGTCTTACCAAGGGTTAGAAGTCTTTTGGTTTTAACTT
TTCCATATTGTTAGAACATCATGGAGACATCATGTTCACTGTTCAAAATTACAAGAGGCTTTTCAAGCTCTAC
CATGCTTTGTAACATATGTAGAAATTATTTTAATGTTATTTTTATTTAAGCAATTAAGTAAAACCTTTTTTAA
TT

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FIGURE 1605

MSSDEEKYSLPVVQNDSSRGSSVSSNLQEEYEELLHYAIVTPNIEPCASQSSHPKGELVPDVRISTIHDLHSQG
NNSEVRETAIEVGKGCDFHISHSKTDDESSPVLSPRKPSHPVMDFFSSHLLADSSSPATNSSHTDAHEILVSDFL
VSDENLQKMENVLDLWSSGLKTNIISELSKWRLNFIWHRMEMRKEKEKHAHLKQLCNQINELKELQKTFEISI
GRKDEVISLSHAIGKQKEKIELMRTFFHWRIGHVRARQDVYEGKLADQYYQRTLLKKVWKVWRSVQKQWKDVV
ERACQARAEVCIQISNDYEAKVAMLSGALENAKAEIQRMQHEKEHFEDSMKKAFMRGVCALNLEAMTIFQNRND
AGIDSTNNKKEEYGPVGQKEHSAHLDPSPAPPMLPVTSPLLPSPPAAVGGASATAVPSAASMTSTRAASASSVH
VPVSALGAGSAATAASEEMYVPRVVTSAQQKAGRTITARITGRCDFASKNRISSSLAIMGVSPPMSSVVVEKHP
VTVTIPQATAAKYPRTIHPESSTSASRSLGTRSAHTQSLTSVHSIKVVD

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FIGURE 1606

ATGGAGGGTCGTGGCTATGCCAAGGAGGGACTAAAAGATCTGGCCACCAGGACACCCAGAACTCCTAAGAAGAAA
TTAACATCTTGTGAGCAGCCCTTTGGCTGTGAAAATGCAAATGACTCAGACTGGCTGCCAAGAGTCACCTGTGAA
GCTCAACTGGCACAGGACTCAGGGCTGAGCTCCATTCTTAATCTCCATCCCATACAGCCAAACAAGCAGAACAC
AGGTTGCGCCCAAGGGTTCTGAACCCAGGATGTATAAAGAAGATGGGCCAGCGAGAGCTCACC GGATGCCGCCAG
AACCGCGACGCTTTCCAAGGCACGGGCCCCCTCTCTCGGGGCGAACCCATTCCAGGGCGCCCTGCCCTTCACAAAG
AAAAGAGAACTCTCCCCGGGGCTCCCGCCGGCTTCTCCGGGATCGGTACGTTTCCCAGAATTAAACAGAAAAAG
CCTGGGAGTGGGCAAGTTGGCAAAGGAAGAGAGGCCCTGTTTGGCTGTGACATGTGGGTGGAGGGTCATAAAGGC
CAGGTGGGGAATGGCAGTGTCCGGCTGAGGGAGGGAGCTGCCACACTGCCTGATCATTGCGGTGGCAGCAGCGGG
GAGGAGATCGGCAGCACCTTTGGCCACAGAGCTGCGCCTCTGTCAAAACAGGCAGCGCTGCAGGCGGCCAGAGA
TCCACTTCCACAGATTCTCGTGGCCAGGGCAGGGGTGTGTTGTGGTGGGCAGACTGGCCAGGCGACCCCTGGCCCA
CCATCACCCCTCTCTTACAGCCCAGATGCGTTCTCGGGGCCCCAGGCCTGCACCCGTTTCTTCTCCCGCATCAGC
AAGGCCAATGTGGACCTGCTCCGAGGGGGGCTCCCGAGCGACAGCGGCTGCTGCCTGCGGCTCTGGCCTGCTGG
GGGCTGGGGCCAGCGCGGGGCGGAGAGGGCTCGGCAGTTCCAAAAGCGCTGAGGCCAGCCTCTCTGCAGGGTGTG
CGGGGGTCTCTGCTGAGCGAGGCTGATGTGCGGGCTCTGGGAGGCCTGGCTTGCGACCTGCCTGGGCGCTTTGTG
GCCGAGTCGGCCGAAGTGTGCTACCCCGGCTGAGGACTGCCATCAGGCTACAAGGCCACTTTGCCACAACAGGC
AGAAAACAAGGAACACTTGGGAATTACATCTCCTTGTTTGGCCCTTAGACAATGATCAACTTGTATTGGAATAT
GAAACCCAGCTCCCTGGCCTGAGTCTGATCAAATCTCAGGATTTTAAAAACCTCAGTGGACAAAAGTCTACT
CACGCTGCTTTGGTAGAATTGGACATAGCCAAGGAGCTCATCAGAAAAGGAGCTGCTAGTCACAGGCAGCAACAA
ACCCACCTCCACACAGGGATCCACTGTGGGGCTGCAATAACTGCTCCTTCTCTGAGTGATACAGGACATTCTGAG
GAAAAGTGGCTGGTGGATGGGCAGTATGTAATGACACAAGCTCATGAGTACAAGCTGAGACATGATGGGAGTCTA
CGGGTCCCATCTACACAGCTTGATGCAGCTCTTCCAATTAATGGCCAGTGTCTGGCTGAACTATTATAG

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FIGURE 1607

MEGRGYAKEGLKDLATRTPTPKKKLTSCEQPFPGCENANDSDWLPRVTCEAQLAQDSGLSSIILNSPSHTAKQAEH
RLRPRVLNPGCIKKMGQRELTGCRQNRDAFQGTGPSLGANPFQALPFTKKRELSPGLPPASPGSVTFPRIKQKK
PGSGQVGKRKRGLFGCDMWVEGHKGQVGNGSVRLREGAATLPDHSRGSSGEEIGSTFGHRAAPLSQTRTAIRLQG
HFATTGRKQGTLGNLHLLVWPLDNDQLVLEYETQLPGLSLIKLSGFLKTLSGQKSTHAALVELDIAKELIRKGAA
SHRQQQTHLHTGIHCGAAITAPSLSDTGHSEEKWLVDGQYVMTQAHEYKLRHDGSLRVPSTQLDAALP INGCLA
ELL

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FIGURE 1608

GGGGCGCACAGAGCCAGAGGGGCTTGCGAGCGGCGGCTGAGGGACCGCGGGGAGGGGGCGCCGAGCGGCTCCAGC
GCAGAGACTCTCACTGCACGCCGAGGGGCGCCCTTCTCGCTCGCGCCCGCGCGACCGCGCGCCCCAGTCCCGCC
CCGCCCCGCTAACC GCCCCAGACACAGCGCTCGCCGAGGGTCGCTTGGACCCTGATCTTACCCGTGGGCACCCTG
CGCTCTGCCTGCCGGAAGACCGGCTCCCCGACCCGAGAGTCAAGGAGAGAGGGTGAAGCGGAGCAGCCCGAGG
CGGGGCAGCCTCCCGGAGCAGCGCCGCGCAGAGCCCGGGACAATGGGGCCCGCGCGGCTGCTGCTGGTGGCCGCC
TGCTTCAGTCTGTGCGGCGCGCTGTGTCTGCCCGCACCCGGGCGCGCAGGCCAGAATCAAAAGCAACAAATGCC
ACCTTAGATCCCCGGTCATTTCTTCTCAGGAACCCCAATGATAAATATGAACCATTTTGGGAGGATGAGGAGAAA
AATGAAAGTGGGTTAACTGAATACAGATTAGTCTCCATCAATAAAAGCAGTCCTCTTCAAAAACAACCTTCTGCA
TTCATCTCAGAAGATGCCTCCGGATATTTGACCAGTCTCTGGCTGACACTCTTTGTCCCATCTGTGTACACCGGA
GTGTTTGTAGTCAGCCTCCCACTAAACATCATGGCCATCGTTGTGTTCATCTGAAAATGAAGGTCAAGAAGCCG
GCGGTGGTGTACATGCTGCACCTGGCCACGGCAGATGTGCTGTTTGTGTCTGTGCTCCCTTTAAGATCAGCTAT
TACTTTTCCGGCAGTGATTGGCAGTTTGGGTCTGAATTGTGTGCTTCGTCACTGCAGCATTTTACTGTAAACATG
TACGCTCTATCTTGCTCATGACATCATAGCATTGACCGGTTTCTGGCTGTGGTGTATCCCATGCAGTCCCTC
TCTTGGCGTACTCTGGGAAGGGCTTCTTCACTTGTCTGGCCATCTGGGCTTTGGCCATCGCAGGGGTAGTGCTT
CTGCTCCTCAAGGAGCAAACCATCCAGGTGCCCCGGCTCAACATCACTACCTGTCTATGATGTGCTCAATGAAACC
CTGCTCGAAGGCTACTATGCCTACTACTTCTCAGCCTTCTGTGCTGCTTCTTTTTTGTGCCGCTGATCATTTCC
ACGGTCTGTTATGTGTCTATCATTCGATGTCTTAGCTCTTCCGCAGTTGCCAACCAGCAGCAAGAAGTCCCGGGCT
TTGTTCTGTCTAGCTGCTGTTTTCTGCATCTTCATCATTTGCTTCGGACCCACAAACGCTCTCTGATTGCGCAT
TACTCATTCCTTTCTCACACTTCCACCACAGAGGCTGCTACTTTGCTTACCTCTCTGTGTCTGTGTGTCAGCAGC
ATAAGCTGCTGCATCGACCCCTAATTTACTATTACGCTTCTCTGAGTGCCAGAGGTACGTCTACAGTATCTTA
TGCTGCAAAGAAAGTTCCGATCCAGCAGTTATAACAGCAGTGGGCAGTTGATGGCAAGTAAATGGATACCTGC
TCTAGTAACCTGAATAACAGCATATACAAAAGCTGTTAACTTAGGAAAAGGGACTGCTGGGAGGTTAAAAAGAA
AAGTTTATAAAAGTGAATAACCTGAGGATTCTATTAGTCCCCACCCAACTTTATTGATTACCTCCTAAACAA
CAGATGTACGACTTGCAACCTGCTTTTTATGGGAGCTGTCAAGCATGTATTTTGTCAATTACCAGAAAGATAA
CAGGACGAGATGACGGTGTTATTCCAAGGGAATATTGCCAATGCTACAGTAATAAATGAATGTCACCTTCTGGATA
TAGCTAGGTGACATATACATACTTACATGTGTGTATATGTAGATGTATGCACACACATATATTATTGCACTGCA
GTATAGAATAGGCACTTTAAACACTCTTCCCCGCACCCAGCAATTATGAAAATAATCTCTGATTCCCTGATT
TAATATGCAAAGTCTAGGTTGGTAGAGTTAGCCCTGAACATTTTCATGGTGTTTCATCAACAGTGAGAGACTCCAT
AGTTTGGGCTTGTACCACTTTTGCAAATAAGTGTATTTTGAAATGTTTGACGGCAAGGTTTAAAGTTATTAAAG
GTAAGACTTAGTACTATCTGTGCGTAGAAGTTCTAGTGTTTTCAATTTTAAACATATCCAAGTTTGAATTCCTAA
AATTATGGAACAGATGAAAAGCCTCTGTTTTGATATGGGTAGTATTTTTTACATTTTACACACTGTACACATAA
GCCAAACTGAGCATAAGTCTCTAGTGAATGTAGGCTGGCTTTCAGAGTAGGCTATTCTGAGAGCTGCATGTG
TCCGCCCCGATGGAGGACTCCAGGCAGCAGACATGCCAGGGCCATGTCAGACACAGATTGGCCAGAAACCTT
CCTGCTGAGCCTCACAGCAGTGAGACTGGGGCCACTACATTTGCTCCATCCTCCTGGGATTGGCTGTGAAGTGT
CATGTTTATGAGAACTGGCAAAGCAGAATGTGATATCCTAGGAGGTAATGACCATGAAAGACTTCTCTACCCAT
CTTAAAAACAACGAAAGGATGGACTTCTGGATGCCATCCACTGGGTGTAAACACATCTAGTAGTTGTTCT
GAAATGTCAAGTTCTGATATGGAAGCACCCATTATGCGCTGTGGCCACTCCAATAGGTGCTGAGTGTACAGAGTGG
AATAAGACAGAGACCTGCCCTCAAGAGCAAAGTAGATCATGCATAGAGTGTGATGTATGTGTAATAAATATGTTT
CACACAAACAAGGCTGTGAGCTAAAGAAGTTTGAACATTTGGGTTACTATTTCTTGTGGTTATAACTTAATGAA
AACAATGCAGTACAGGACATATATTTTTTAAATAAGTCTGATTTAATTGGGCACATTTTATTACAAATGTTTT
GCTCAATAGATTGCTCAAATCAGGTTTTCTTTTAAAGATCAATCATGTGCTGCTTAGAATAACAGAAGAAA
ATAGAATTGACATTGAAATCTAGGAAAATTATTCTATAATTTCCATTTACTTAAGACTTAATGAGACTTTAAAG
CATTTTTTAACCTCCTAAGTATCAAGTATAGAAAATCTTCATGGAATTCACAAAGTAATTTGGAAATTAGGTGA
AACATATCTCTTATCTTACGAAAAAATGGTAGCATTTTAAACAAAATAGAAAGTTGCAAGGCAAATGTTTATTTA
AAAGAGCAGGCCAGGCGCGGTGGCTCACGCTGTAATCCAGCACTTTGGGAGGCTGAGGCGGGTGGATCACGAG
GTCAGGAGATCGAGACCATCTGGCTAACACGGTGAAACCCGTCTCTACTAAAAATGCAAAAAAATAGCCGGG
CGTGGTGGCAGGCACCTGTAGTCCAGCTACTCGGGAGGCTGAGGCAGGAGACTGGCGTGAACCCAGGAGGCGGA
CCTGTAGTGAGCCGAGATCGCGCCACTGTGCTCCAGCCTGGGCAACAGAGCAAGACTCCATCTC

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FIGURE 1609

GAAGAGGCGAGAACGACCCCCGGTCCGACCAAAGCCCGCGCGCGCTGCGTCCCGCGTCCAGCACCTATGTCCCG
CTGCCGTGCTGCCGCCACCATGCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGG
ACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCACGCCTAAAAGGC
CCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCAAGGAGGGAAATAACCC
TGCAGGAAATGGAGATGCCAAAACAGACCAGGCGCAGAAAGCTGAAGGTGCTGGAGATGCCAAGTGAAGTGTGTG
CATTTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGAAATACTATTTTTATCAAGTTTTATAAAAATGC
AGAATTTTGTGTTTTATTTTATTTTATTTTTTTTTAAAGCTATGTTGTTAGCACATAGAACACTTCATTGTTGTTTT
GGGGGAAGGGGCATATGTCGCTAATAGAATGTCTCCAAAGCTGGATTGATGTGGAGGATTCCCTGACTTTGACAC
ACATGGCCACCTTGGCACAAAAGCCTTGTTGGTATAGAAAAACAAATT

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FIGURE 1610

GGCGAGAACGACCCCGGTCCGACCAAAGCCCGCGCGCGCTGCGTCCCGCGTCCAGCACCTATGTCCCGCTGCC
GTCGCTGCCGCCACCATGCCCCAAGAGAAAGGCTGAAGGGGATGCTAAGGGAGATAAAGCCAAGGTGAAGGACGAA
CCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAAGCCAGAGCCCACGCCTAAAAGGCCCTG
CAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGATGCTGGCGAGGAGGGATTCCCTGACTTG
ACACACATGGCCACCTTGGCACAAAAGCCTTGTTGGTATAGAAAAACAAATTTGTTTTATGTCCTCGTCTCCCTT
TCCCTCTTTCAGCATAGACTTAACTCCCTTAAGCCCAGACATCTGTTGGGACCTGACCCCTAGTCATTGGTTACC
AGTGTGTTAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCTGTCAAAGAGCAGTGGTTCGTTC
TAGATTATGGATCTTCAGATAAATTCTGCCATTTTCATTAACTTCCTGAAAGTCAGGGTCGGCTTGTGAAAAGT
TGTTAAACAACATGCTAAATGTGAAATGTCAACCCTCACTCTAACTTTCCTGTTTCAGAGCATCAGATGAAGAC
TTCATTGGGTTTTATAGTGGCTTTCTGATTTTTGGTAGTCCATTGAAGAAGGGAGTTTGAAAGTTGTTGTATACT
GTTAACGATTGTCTGCCCATGTCCTGCCTGAAATACCA

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FIGURE 1611

GGGAGATAAAGCCAAGGTGAAGGACGAACCACAGAGAAGATCCGCGAGGTTGTCTGCTAAACCTGCTCCTCCAAA
GCCAGAGCCCACGCCTAAAAGGCCCTGCAAAGAAGGGAGAGAAGGTACCCAAAGGGAAAAAGGGAAAAGCTGAT
GCTGGCAAGGAGGGGAAATAACCCTGCAGGAAATGGAGATGCCAAAACAGACCAGGCGCAGAAAGCTGAAGGTGCT
GGAGATGCCAAGTGAAGTGTGTGCATTTTGATAACTGTGTACTTCTGGTGACTGTACAGTTTGAATACTATTT
TTTATCAAGTTTTATAAAAATGCAGAAATTTGTTTTATTTTATTTTATTTTTTTTAAAGCTATGTTGTTAGCACA
TAGAACAGTTTCATTGTTGTTTTTGGGGGAAGGGGCATATGTCGCTAATAGAATGTCTCCAAAGCTGGATTGATGT
GGAGAAAACACCTTTCCCTTCTAGTTTTGAGAGACTTCTCTTGGCTTCCAGGAGGAGGGATTCCCTGACTTTGA
CACACATGGCCACCTTGGCACAAAAGCCTTGTGGTATAGAAAAACTCCCTTAAGCCCAGACATCTGTTGGGACC
TGACCCCTAGTCATTGGTTACCAGTGTGTTAGGCAATCTGGACTTTCCAGTGATGCCACTGAGATGGCACCT

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FIGURE 1612

AAACCTCGCCCAGATTTCAGGCGTGTAAACCAGCCGGAGCGGCGCGGCAGCGGCAGGACCGCCGTGGCGCCTAGAG
TAGCGACCCGCGGGGAGCACGGGGCGACGCTGGCTGCAGAGACCCGGTGACAGCTGTATGCTTGAAATCTTGAT
ACTGCAGGAACGGAGCAATTTACAGCAATGAGGGATTATACATGAAAAATGGACAAGGGTTTGCATTAGTTTAT
TCCATCACAGCACAGTCCACATTTAACGATTTACAAGACCTGAGAGAACAGATTCTTCGAGTTAAAGACACTGAT
GATGTTCCAATGATTCTTGTGGTAATAAGTGTGACTTGAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAA
AATCTAGCAAGACAATGGAACAACGTGCATTCTTAGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATC
TTTTATGACCTAGTGCGGCAAATTAACAGAAAACTCCAGTGCCTGGGAAGGCTCGCAAAAAGTCATCATGTCAG
CTGCTTTAATAATACTAAATGCATTGTAGCTCTGAGCCAGGTCTGAAGAACTGTTGCCAATTCAACAGTGCCAGC
ATTCCAACTTTGTAAACCTACCAACATCTTAAATGGACTTTCCTGTGGTGGTACCCTTTAAGAGGCGGATGAAA
GCTACTATATCAGTTTGCACATTCTAATCACTTTCCAGTATCACAAGAGAGATTTTACTTATATAATAGTCCTA
GAGTATGCAGCTGGTAAAACAGAGGCTACATCCAGTATTACTGCTAAGAGACATTCTTCATCCACCAATGTTGT
ACATGTATGAAAATGGTGTACTGTATACCTTAACATGCCCCATACTTTGTATTGGAGAGTACAATAATGTAAATC
CTAAAAGCACCCTATTTTAGCATAATAAAAGAAAGTCCAAAGAGCTCCTATATAGACTACTCCAGATAACTTCG
CTTCTTTGATACTTGTAGCTTATTGTAATTTTTTTTAAAGAAATTCAAGGTCATTATTATTGTACAAAATAAGCGC
TTTGATTAAACACAGCTATATAGTTTTTTTAAATTTTAAATGTCTTAGATTAAAGACGTTGCCTTTAATATCTGTTG
GGAAGGAAATGTCCAGACTTTTCAAATCTCTATTATATGTTTCCTTTTTTGTTTACATAGGGAACAATGTTTA
TAGTCGTGTGTACAGTGGGGGTCTACAACAAGAAGTGTATATT

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FIGURE 1613

MREYKLVVLGSRGVGKSALTVOFVQGIFVEKYDPTIEDSYREQVEVDAQQCMLEILDTAGTEQFTAMRDLYMKNG
QGFAVYSITAQSTFNDLQDLREQILRVKDTDDIFYDLVRQINRKTPVPGKARKKSSCQLL

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FIGURE 1614

TTGGAGCAGGCCTGCTGCCTTCATGTCCACTCTCCTCATCAATCAGCCCCAGTATGCATGGCTGAAAGAGGTGGG
GCTCCGAGAGGAAAATGAGGGCGTGTATAATGGAAGCTGGGGAGGCCGGGGAGAGGTTATTATGACCTGTTGCTC
TGCTAACAAC TAGCCAATAGCAAGAGTCCGACAGGCCAGTGTGGCAGACTATGAAGAACTGTAAAGAAAGCAAC
AGAAGCATGGAAAATCTGGGCAGATATTCCTGCTCCAAAACGAGGAGAAATAGTAAGACAGATTGACGATGCCTT
GTGGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAGATGGGGAAAATCTTAGTGGAAAGGTGTGGGTGA
AGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTATCAAGGATGATTGGAGGACCTATCTTGCCTTC
TGAAAGACCTGGCCATGCACTGATTGAGCAGTGGAATCCTGTAGGCCTGGTTGGAATCATCACGGCATTCAATTT
CCCTGTGGCAGTGTATGGTTGGAACAACGCCATTGTCTATGATCTGTGGAAATGTCTGCCTCTGGAAAGGAGCTCC
AACCACTTCCCTCATTAGTGTGGCTGTCACAAAGATAATAGCCAAGGTTCTGGAGGACAACAAGCTGCTTGGTGC
AATTTGTTCTTGACTTGTGGTGGAGCAGATACGGGCACAGCAATGGCCAAAGATGAACGAGTGAACCTGCTGTC
CTTCACCGGGAGCACTCAGGTGGGAAAACAGATGGCCCTGATGGTGCAGGAGAGGTTTGGGAGAAGTTTGTGGGA
ACTTGGAGGAAACAGTACCATTATTGCCTTTGAAGATGCAGACCTCAGCTTAGTTGTTCCATCAGCTCTCTTCAC
TGCTGTGGGAATAGCTGGCCAGAGGTGTACCACTGCGAGGCGACTGTTTGTACATGAAAGCATCCATCATGAGGT
TGTAACAGACTTAAAAAGGCCTACGCACAGATCCGAGTTGGGAACCCATGGGACCCTAATGTCTCTATGGGCC
ACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGGAGCAGCGGAAGAAGCAAAGAAAGAAGGTAGCACAGTGGT
CTATGGGGGCAAGGTTATGGATCGCCCTGGAATTTATGTAGAACCACAAATGTGACAGGTCTTGCCACAGATGC
ATCCATTGCACACACAGAGACTTTTGCTCCGATTCTGTATGTCCTTTAAATTCAAGAATGAAGAAGAGGTCTTTGC
ATGGAATACTGAAGTAAAACAGAGACTTTCAAGTAGCAACTTTACCAAAGATCTGGGCAGAACTTTTCGCTGGCT
TGGACCTAAAGGATCAGACTGTGGCACTGTAAATGTCAACATTCCAACAAGTGGGGCTGAGATTGGAGGTGCCTT
TGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAATCTGGCAGTGATGCCTGGAAACAGTACATGAGAAGGTCTAC
TTGTACTATCAACTACAGTAAAGACTTTCCTCTGGCCCAAGGAATCAAGTTTCAGTAAAGGTGTTTTAGATGAAC
ATCCCTTAATTTGAGGTGTTTCGGCAGCTGTTTTTGAAGAAGACAAAGAAAATTAAGTTTTCTTGAATAAATGC
ATTATTATGACTGTGACAGTGACTAATCCCCCTATGACCCCAAAGCCCTGATTAAATCAAAAGACTCCTTTTTTA
AAAATCAAAATAAAATTGTTACAACAT

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FIGURE 1615

CCTCTTTTTCCGGCTGGAACCATGGAGGGTGTAGAAGAGAAGAAGAAGGAGGTTCCCTGCTGTGCCAGAAACCCTT
AAGAAAAAGCGAAGGAATTTCTGTAGAGCTGAAGATCAAGCGCCTGAGAAAGAAGTTTGCCCAAAGATGCTTCGA
AAGGCAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAAGGAATATAGGCAAATGTACAGAACTGAA
ATTGAGTGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATGGCGTTTGTATC
AGAATCAGAGGTATCAGTGCTGTGAGCCCAAAGGTCCGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTC
AATGGAACCTTTGTGAAGCTCAACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATAGCATGGGGG
TACCCCAATCTGAAGTCAGTAAATGAACTAATCTACAAGCGTGTTATGGCAAATCAATAAGAAGCGAATTGCT
TTGACAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATTATCTGCATGGAGGATTTGATTGATGAG
ATCTATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGT
GGAATGAAGAAAAAGACCACCCATTTGTAGAAGGTAGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTT
ACTAGAAGAATGAACTAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTC
AAATTGA

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FIGURE 1616

MEGVEEKKKEVPAVPETLKKKRRNFVELKIKRLRKKFAQKMLRKARRKLIYEKAKHYHKEYRQMYRTEIRVARMA
RKAGNFYVPAEPKLAFFVIRIRGISAVSPKVRKVLQLLRRLRQIFNGTFVKLNKASINMLRIVEPYIAWGYPNLKSV
NELIYKRGYKINKKRIALTDNALIARSLGKYGIICMEDLIHEIYTVGKRFEANNFLWPFKLSSPRGGMKKKTT
HFVEGRDAGNREDQINRLTRRMN

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FIGURE 1617

GCACCATGGCGGTTGGCAAGAACAAGCACCTTACGAAAGGCAGCAAAAAGGGGGCCAAGAAGAAAGTGGTTGATC
CATTTTCTAAGAAAGATTGGTATGATGTGAAAGCACCTGCTATGTTCAATATAAGAAATATTGGAAAGATGCTCA
TCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTGAAGTGAGTCTTGCTGATT
TGCAGAATGATGAAGTTGCACTTAGAAAAATTCAAGCTGATTACTGAAGATGTTCAAGGTAAAACTGCCTAACTT
CCATGGCATGGATCTTACCTGTGACAAAATGTGTTCCATGGTCAAAAAATGGCAGACAATGATTGAAGCTCACGT
TGACGTCAGGACTATTGATGGTTACTTGCTTCGTCTGTTCTGTGTTGGTTTTACTAAAAACGCAACAATCAGAT
ACAGAAGACCTCTTATGCCCAGCACCAACGGGTCCGCCAAATCCGGAAGAAGATGATGGAAATCATGACCCGAGA
GGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAATCTATCCTCTCCATGATGTCTTCGTTAGAAA
AGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCAGTAGTTCTGG
AAAAGCCACTGGGGACGAGAGAGGTGCTAAAGTTGAACGAGCTGATGGTTTTGAACCACCAGTCCAAGAATCTGT
TTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTGTGA

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FIGURE 1618

MDLTCDKMCSMVKKWQTMIEAHVDVRTIDGYLLRLFVGF TKKRNNQIQKTSYAQHQRVRQIRKKMMEIMTRED S
RQHWKRHRKGLPIYPLHDVFVRKVKMLKKPKFELGKLMELHGE GSSSGKATGDERGAKVERADGFEPVQESV

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FIGURE 1619

TTTCTGCCCATGGACACCGCCGAAGAAGCATTGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGT
CTCCTGAAGAGCCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGCTGAGCTTTGAAACAACTGATGAGAGCCTTG
AGGAGCCATTTTGGCAATGGGGAATGCTCACGGACTGTGTGGTCATGAGAGATCCAAACACCAAGCACCCACAGG
GGCTTTGGGTTTGTICACATATGCTACTGTGGAGGAGGTGGATGCAGCCATGAATGCAAGGCCACACAAGGTGGAT
GGAAGAGTTGTGGAAACAAAGAGAGCTGTCTCGAGAGAAGATTCTGAAAGACCAGGTGCCCACTTAAGTGTGAAA
AAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAA
ATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTGCCTTTGTAAATTTTGACGAC
CATGACTCCATGGATAAGATTGTCATTTCAGAAATACCATACTGTGAATGGCCACAAGTGTGAAGTTAGGAAAGCC
CCGTCACAGCAAGAGATGGATAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAACTTTGGTGGTGGT
CGTGGAGGTGGTTTCGGTGGGAATGACAACTTTGGTCATGGAGGAACTTCAGTGGTTGTGGTGGCTTTGGTGGC
AGTCATGGTGGTGGTGGATATGGTGGCAGTGGGGATGGCTATAATGGATTGGTAATGATGGAAGCGATTTTGGG
GGTGGTGGAAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTGGACCCATGAAGGGAGGAAAT
TTTGGAGGCAGAAGCTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGCTAT
GGCGGTTCCAGTAGCAGCGGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAACAAAGCTTAGCAGGAGCGG
AGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAAGTCAAGCAAGCAGTGGTGGCAGGG
CCTAGCTGCTACAAAGAAGACATGTTTTAGACAAATACTCATGTGTATGGGCAAAAACTCGAGGACTGTATTTG
TGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAGCATTCCAACAAAGGGTTTTAAT
GTAGATTTTTTTTTTGACCTATGCTGTTGATTGCTAATGTAATAGTCTGATCGTGATGCTGAATAAATGTCTTT
TCTTTTTAATGTGCTGTGTAAAGTTAGTCTACTCTGAAGCCATCTTGGTAAATTTCCCCAACAGTGTGAAGTTAG
AATTCCTTCAGGGTGATGCCAGGTTCTATTTGGAATTTATATACAACCTGCTTGGAGGGAGAAGCCATTGTCTTC
AGAAACCTTGGTGTAGTGAAGTGAAGTTACCGTTGTGACCTGAAGTTACCAATTAAGGGATTACCAAGCA
AAATCATGGAATTATTGGTTATAAAAGTGATTGTTGGCACATCCTATGCAATATATCTAAATTGAATAATGGTAC
TAGATAAAATTATAGATGGGAATGAAGCTTGTGTATCATCCATTATCATGTGTAATCAATAAATGATTTAATTCT
CTTGAA

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FIGURE 1620

MRALRSHFEQWGMLTDCVVMRDPNTKHPRGFGFVITYATVEEVDAAMNARPHKVDGRVVEPKRAVSREDSERPGAH
LTVKKIFVGGIKEDTEEHHLRDDFEQYGKIEVIEIMDRSGSKRGFAFVNFDDHDSMDKIVIQYHTVNGHNCE
VRKAPSQQEMDSASSQRGRSGSGNFGGGRGGGFGGNDNFHGNGNFSGCCGFGGSHGGGGYGGSGDGYNGFGNDG
SDFGGGGSYNDFGNYNQSSNFGPMKGNFGRSSGPYGGGGQYFAKPQNQGGYGGSSSSGSYGSRRF

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FIGURE 1621

CCGCCGAAGAAGCATTGTTAAAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGA
ACAGCTGAGGAAGCTCTTCATTGGAGGGCTGAGCTTTGAAACAACCTGATGAGAGCCTTGAGGAGCCATTTTGAGC
AATGGGGAATGCTCACGGACTGTGTGATTCTGAAAGACCAGGTGCCCACTTAACCTGTGAAAAAGATATTTGTTGG
TGGCATTAAAGAAGACACTGAAGAACATCACCTAAGAGATGATTTGAAACAGTATGAAAAAATTGAAGTGATTGA
AATCATGACTGACCGAGGCAGTGGCAAGAAAAGGGGCTTTGCCTTTGTAAATTTTGACGACCATGACTCCATGGA
TAAGATTGTCATTAGAAAATACCATACTGTGAATGGCCACAACCTGTGAAGTTAGGAAAGCCCCGTCACAGCAAGA
GATGGATAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGTTCTGGAACTTTGGTGGTGGTCGTGGAGGTGGTTT
CGGTGGGAATGACAACTTTGGTCATGGAGGAACTTCAGTGTTGTGGTGGCTTTGGTGGCAGTCATGGTGGTGG
TGGATATGGTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCGATTTGGAGGTGGTGGAGCTA
CAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTGGACCCATGAAGGGAGGAAATTTGGAGGCAGAAG
CTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAGCAGAAGATTTTAATTAGG

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FIGURE 1622

AAGTCTCTCTTCACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGAACAGCTGAGGAAGCTCTTCA
TTGGAGGGCTGAGCTTTGAAACAACCTGATGAGAGCCTTGAGGAGCCATTTTGAGCAATGGGGAATGCTCACGGAC
TGTGTGGTCATGAGAGATCCAAACACCAAGCACCCAGGGGCTTTGGGTTTGTACATATGCTACTGTGGAGGAG
GTGGATGCAGCCATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAAGAGAGCTGTCTCGAGA
GAAGATTCTGAAAGACCAGGTGCCCACTTAACTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAA
GAACATCACCTAAGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGT
GGCAAGAAAAGGGGCTTTGCCTTTGTAAATTTTGACGACCATGACTCCATGGATAAGATTGTCATTTCAGAAATAC
CATACTGTGAATGGCCACAACCTGTGAAGTTAGGAAAGCCCCGTCACAGCAAGAGATGGATAGTGCTTCATCCAGC
CAAAGAGGTCGAAGTGGTCTTGAAACTTTGGTGGTGGTTCGTGGAGGTGGTTTCGGTGGGAATGACAACTTTGGT
CATGGAGGAACTTCAGTGGTTGTGGTGGCTTTGGTGGCAGCTATAATGGATTGGTAATGATGGAAGCGATTTT
GGAGGTGGTGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGGGAGGA
AATTTTGGAGGCAGAAGCTCTGGCCCTTATGGTGGTGGAGGCCAATACTTTGCAAAACCACAAAACCAAGGTGGC
TATG

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FIGURE 1623

ACCCTGCCGTCATGTCTAAGTCAGAGTCTCCTGAAGAGCCCGAACAGCTGAGGAAGCTCTTCATTGGAGGGCTGA
GCTTTGAAACAACCTGATGAGAGCCTTGAGGAGCCATTTTGAGCAATGGGGAATGCTCACGGACTGTGTGGTCATG
AGAGATCCAAACACCAAGCACCCAGGGGCTTTGGGTTTGTACATATGCTACTGTGGAGGAGGTGGATGCAGCC
ATGAATGCAAGGCCACACAAGGTGGATGGAAGAGTTGTGGAACCAAGAGAGCTGTCTCGAGAGAAGATTCTGAA
AGACCAGGTGCCCACTTAAGTGTGAAAAAGATATTTGTTGGTGGCATTAAAGAAGACACTGAAGAACATCACCTA
AGAGATGATTTTGAACAGTATGGAAAAATTGAAGTGATTGAAATCATGACTGACCGAGGCAGTGGCAAGAAAAGG
GGCTTTGCCCTTTGTAAATTTTGACGACCATGACTCCGTGGTGGCTTTGGTGGCAGTCATGGTGGTGGTGGATATG
GTGGCAGTGGGGATGGCTATAATGGATTTGGTAATGATGGAAGCGATTTTGGAGGTGGTGAAGCTACAATGATT
TTGGCAATTACAACAATCAGTCTTCAAATTTTGGACCCATGAAGG

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FIGURE 1624

CAAAGGCTACTAAGTTAATGGTATTTTCTGCACAGAAAATACCATTAACTTAGTAGCCTTTGCTTAAAGGTGGGA
TTAATTCTCCATGAAGTCAGAATGAGACAATAAGCAGCATTAACTTCATAGGCACACAGAACTAGTGCTCAAAC
GCTACCACCCCTTTTCAATTGCTATCTTTTGAAAGGCACCACTATTTGTTTTGCTGGGGTCTCGGGTGGACCCTTA
TTCGCTCCGACAAGATGAAAGAAACAATCATGAACCAGGAAAACTCGCCAACTGCAGGCACAAGTGCGCATTG
GTGGGAAGGAAGTCTCGCAGAAAGAAGAAGGTGGTTCATAGAACAGCCACAGCAGATGACAAAAAACTTCAGT
TCTCCTTAAAGAAGTTAGGGGTAAACAATATCTCTGGTATTGAAGAGGTGAATATGTTTACAAACCAAGGAACAG
TGATCCACTTTAACAACCCATAAGTTCAGGCATCTCTGGCAGCGAACACTTTCACCATTACAGGCCATGCTGAGA
CGAAGCAGCTGACAGAAATGCTACCCAGCATCTTAAACCAGCTTGGTGCGGATAGTCTGACTAGTTTAAGGAGAC
TGGCCGAAGCTCTGCCCAAACAATCTGTGGATGGAAAAGCACCCTTGCTACTGGAGAGGATGATGATGATGAAG
TTCCAGATCTTGTTGGAGAATTTTGATGAGGCTTCCAAGAATGAGGCAAACTGAATTGAGTCAACTTCTGAAGATA
AAACCTGAAGAAGTTACTGGGAGCTGCTATTTTATATTATGACTGCTTTTTAAGAAATTCTTGTTTATGGATCTG
ATAAAATCTAGATCTCTAATATTTTTAAGCCCAAGCCCCTTGGACACTGCAGCTCTTTTCAGTTTTTGCTTATAC
ACAATTCATTCTTTGCAGCTAATTAAGCCGAAGAAGCCTTAAGTGGGAATTC

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FIGURE 1625

MKETIMNQEKLAQLQAQVRIGGKGTARRKKKVVRTATADKKLQFSLKKLGVNNISGIEEVNMFTNQGTVIHFN
NPKVQASLAANTFTITGHAETKQLTEMLPSILNQLGADSLTSLRRLAEALPKQSVGKAPLATGEDDDDEVDPDLV
ENFDEASKNEAN

FIGURE 1626A

CGAGTGGCGCTGCGGAGACCACCGGTCCAGACGCCTGGCGGCCGCCGGCACACAAGGCGCTTTCTAGCTCCCTCCCC
CGAGCGCACAGCCCGCTCCTTCCGCGGCGCCTGCAGTGGCAGGCTTGCTCTGCCCTACCGTGACGCGCTCCGGA
GACGCTCTGCGGGTCTTGACACCCGGGTCCGCGCGGTGGGGACGACAGACGGAGGCGAACGCCATCGGTAGCCGG
TCCGCGAGCCATCGTTTGGGGCGCAGTCTCTCCCCGGCTGGCCCTCCTTTCTCCGGGGCATTGCCACCCTTC
CCTGGGCTGAGACGACCGGTTCTGTCGCTCCTTGCCCGTGACCGTTCGTAGAACTCAGTTGTGCGTTGCGGCCAG
TCGCCACTGCTGAGTGGAAACAAATGTCAGTCAGTGTGCATGAGAACCGCAAGTCCAGGGCCAGCAGCGGCTCC
ATTAACATCTATCTGTTTACAAGTCTCTACGCTGACAGCGTCTCTACTCACCTGAATCTTTTACGCCAGCAG
CGTCTCTTCACTGACGTCCTTCTCCATGCCGGAATAGGACCTTCCCTTGCCACCGGGCAGTGTCTGGCTGCATGC
AGTCGCTACTTTGAGGCCATGTTTCACTGGTGGCTGAAAGAGAGCCAGGACAGTGAAGTCACTTTGACAATTC
ATCCACCCAGAAGTCTTGGAGCTGCTGCTTGACTATGCGTACTCTCCCGGGTCATCATCAATGAAGAAAATGCA
GAATCGCTCCTGGAAGCTGGTGACATGCTGGAGTTTCAAGACATCCGGGATGCATGTGCAGAGTTCTGGAAAAG
AACCTGCATCCACCAACTGCCCTGGGCATGCTGCTGCTGTCTGATGCACACCAGTGCACCAAGCTGTACGAACTA
TCTTGGAGAATGTGTCTCAGCAACTTCCAAACCATCAGGAAGAATGAAGATTTCCCTCCAGCTGCCCCAGGACATG
GTAGTGCAACTCTTGTCCAGTGAAGAGCTGGAGACAGAGGATGAAAGGCTTGTGTACGAGTCTGCAATTAAGTGG
ATCAGCTATGACCTGAAGAAGCGCTATTGCTACCTCCAGAAGTGTGACAGAGTAAGGCTGGCACTTCTGCCA
GCCATCTATCTCATGGAGAATGTGGCCTATGGAGGAACATCATCACCAGCAGAGAAAGAGTAAGGAAATTTGTGGAA
GAGGCCATCAGGTGCAAACTGAAAATCTGCGAATGACGGTGTTGGTAACCAGCCTCTGTGCCCGACCTCGGAAA
ACTGGCCATGCCCTCTCTTCTGGGAGGACAGACTTTCATGTGTGACAAAGTTGTATCTGGTAGACCAGAAGGCC
AAAGAAATCATTCCCAAGGCTGACATTTCCAGCCCAAGAAAAGAGTTTAGTGATGTGCGATTGGCTGCAAGTG
TACATTACTGGGGGGCGGGGGTCTGAAAATGGGGTCTCAAAGATGTCTGGGTTTATGATACCCTGCACGAGGAG
TGGTCCAAGGCTGCCCCCATGCTGGTGGCCAGGTTTGGCCATGGCTCTGCTGAACTGAAGCACTGCCTGTATGTG
GTTGGGGGGCACACGCCGCAACTGGCTGCCTCCCGGCTCCCCCTCAGTCTCTCTAAAGCAGGTAGAACATTAT
GACCCCAACAATCAACAAATGGACCATGGTGGCCCCACTCCGAGAAGGCGTTAGCAACGCCCGCAGTAGTGAGTGGC
AACTTAAAGTTATTTGCTTTTCGGAGGTACCAAGTGTGCTGATGACAAGCTCCCCAAAGTTTCACTGTACGATCAG
TGTGAAAACAGGTGGACTGTACCGGCCACCTGTCCCCAGCCCTGGCGTTACACAGCAGCAGCTGTGCTGGGGAAC
CAGATTTTTTATTATGGGGGGTGATACAGAATTCTCTGCCTGCTCTGCTTATAAATTCAACAGTGAGACTTACCAG
TGGACCAAGGTGGGAGATGTGACAGCAAAGCGCATGAGCTGCCATGCTGTGGCCTCTGGAACAAACTCTACGTG
GTTGGAGGATACTTTGGCATTACGCGATGCAAGACTTTGGACTGCTACGATCCAACATTAGACGTGTGGAACAGC
ATCACCCTGTCCCGTACTCGCTGATTCTTACTGCAATTTGTGACACCTGGAACATCTGCCTTCTTAAATGTCAG
TACATTCTAAAGAGAGTGAGCATGAGCTCACTCCATCACTCGATGAGATAATATGAGATTTCTACTCTGGAGAGG
CCAAGTCTAATGAAGAGAAAAAAGGAAAAAGAGTTGCAAGACTCGAATAAAATCTGCTGCACCTGTAAATGCT
CTAACTGGACATGAAGGAAAGGGGCGAGGGAGGGGGTGGGATTTTGGTGCAAGTGAATGTAATCAGCCCCCTCAAAGGG
AATGAACAAACCTGTGATCTAGTCTTGTCTTGTAAATTGTGGATTAATGTCAATGTTAATCAGCCCCCTCAAAGGG
AGAGAAAAGCTGGACCTTTCCCTTGTCTGATACCATATTCAGCATTTGATTTCCATGGGCCCCACCATTTATGTGT
AGAATTTGAAATGGTTGTACCTCTCTGAGGACAGAGCTTGAAGCCTCCACACCAGCTGCTGCTGGAGATTCA
AAGCCCAACTGTGGTCCGAGAGGGAAGCTGGCTGGCTGGAAGATGAAGACCCTGGACTCTCCGTTAAT
CTCTAAGGGGTCTGCTCCCCAGGAACGTTTCTGAACAATGGGGACTTTGTTGGTAGCCATTTGGTAGATGTTCTT
TTCTATTTATAAGTGACTTTAAACTTTCCCTTGGCTGTTAAGAAGTTTGTATAGATTTAGCTATTTATTGTTCTG
ATGCTGCAATGCTGAAACAATGCCTACAGCTGTCTTACATGTATGGACGTGTGTGAATGTTGTACGTTTTGCA
CATTTTGTGGCTGTTGAGATGTGCTTTGCTGCACAAACATGAAAATTTTTGAGTTACAATTTGGAGCATAACTGG
AGGGTGGGTTGGGGAGGGGTGGATTTTTTAAATGTCAAGACAGGGAAGGATGACAAAATGGAATTTAAATGACA
TCCTAGAGGTAGAGAAACCGTGGAGATCGCTTTTCTCAGACTCACCAACTTTTAAATGGGATTTTATGGGGTTTGG
TTGTGCTGATAGGGTAAGGGGAGGCTGCTTTCTGCCCTTCTCCCCACTCCCATCTGATTTACTTAAATCAGTCTC
AGCTGCTGAAATTTGGAAGGACCAAATTTGCTTTACAGTTTTTTTCTTTGTGTAGTATCTTGAATCCTGGAAAA
TTCTATGGAATAGTTCTGTATATAGGGCACAAGTAAAGGCATTGTCCAAAGTTTATTTATTTATTTATACCCTA
AGAATGCTTTGCCATAACCACATTTAATGGGAAAAACGGCAGTATCACAGATGTAATTAACCTACCAGATTTAC
TGGGCTGAACTCATTCTCTTCTTGCTATATGATTTAGCAAGTTCTAGAAGGTCTCCAAGACAATAATTACATTG
GCACAATGTATACTTCAGTGTCTACCCGTAGGCAAATCTCTTTTTAAAAAACTCTTTGGTGCACAAGTAACACAT

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FIGURE 1626B

TTGGCCACAAAACACCAAAGAATTGTAGGCAGTGGCCCCCTATTGAGAAGTTTTCCGGTAGAGTTGGAAATCAGTT
GTGAATACATTCTTTGCTAGTTGGAGTGCTTGTTTACTAAGCATGTGCCGTCGTAGGTATTAGTGCTAGTCTCAG
ATAGGTGCTTCCCTGAGGTGCAGGGGAAGACCAAAGTTTGCAACTCGAACTGCTTTTCGTCCATGTTTCTCACAT
TGCTGTATTTTAGAAAATAGGGGTAAAGACTGATAACAACCTTTTACATTGTGACTGTGTTTGCATTGTCTAATG
ACAGATAAATCCTTAACATTTCTCTCCACCTTAGTACTTTAGACTAATTGTGTTTGTCCGTCCATGCCATGAATG
AGTGGGCTGTAGTTGGGCCTAAATAAATGAGCTGTTGGAAGAAAAGAATCACAGTACTTTCAGCAGTCAGTCCC
TGGTTCCTAGATGTGTTCTAAGCAATGCAAATGTCTAATTGTCCCCCAGTGGGCATAGTCAGTGTCGTTTATATT
GTAGCAGTTACAGCTCTGTAGTTTATGATGCAAATCTGCCAAGAGAGATGTATGTGTCACATGCATGGCTTCTGAA
AGCAGGATGAATTTTCTGCAGCTGTTTCAAAGTTGGGGTCTGTTCTTGAATCCTCTATTAAATTACTGTGTGTGAG
CCAGAGGGAGCTGTGGTAAGGGTTGGGCCCCCAGCCTGTAGGGAACTTTCTGGACTCCCACTCTTTGAATCGATA
TAGGCATTTGGTCTCACTACTTGACCATTCTCACCTGTGAAACGTCCCACACTTTGAAGCAAATACAATTCACA
GCACAGTACACACAAAACCTTGGCATAAGACAGAGAAGGTTCTTCTTATTTGTGGGCTGGTTGCTGTAGAAAC
ACATAACAAAGGGCAGCCCTCCACTTCTGGTATAATTGTGTAGCCCCTTTTCTTTGGGCTTGACACCTGTCTTGA
ATAAGAGTGATTAGAGCTGCATAATGTCCCTCTCTTGCTATTGACCATGTGGTTCACGTACAAAACCTCTGTATA
AGTTGAAGGAAAATGTTTATGTTTATGTACTTGTTTGCTATGACTACATTTTGAGGTTTGTAAAACCTGTTAT
TTTTTTTTTTTTTCACAATGTGAACTGAAGGTCAATAAATTATTAGAGATTTTCTCTTC

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FIGURE 1627

CTGATCCGGGCCGGGCGGGAAGTCGGGTCCCGAGGCTCCGGCTCGGCAGACCGGGCGGAAAGCAGCCGAGCGGCC
ATGGAGCTGTGCGGGCTGGGGCTGCCCCGGCCGCCATGCTGCTGGCGCTGCTGTTGGCGACACTGCTGGCGGCG
ATGTTGGCGCTGCTGACTCAGGTGGCGCTGGTGGTGCAGGTGGCGGAGGCGGCTCGGGCCCCGAGCGTCTCGGCC
AAGCCGGGGCCGGCGCTGTGGCCCCTGCCGCTCTCGGTGAAGATGACCCCGAACCTGCTGCATCTCGCCCCGGAG
AACTTCTACATCAGCCACAGCCCCAATTCCACGGCGGGCCCCCTCCTGCACCCTGCTGGAGGAAGCGTTTCGACGA
TATCATGGCTATATTTTTGGTTTCTACAAGTGGCATCATGAACCTGCTGAATTCCAGGCTAAAACCCAGGTTTCAG
CAACTTCTTGTCTCAATCACCCCTTCAGTCAGAGTGTGATGCTTTCCCCAACATATCTTCAGATGAGTCTTATACT
TTACTTGTGAAAGAACCAGTGGCTGTCTTTAAGGCCAACAGAGTTTGGGGAGCATTACGAGGTTTAGAGACCTTT
AGCCAGTTAGTTTATCAAGATTCTTATGGAACCTTTCACCATCAATGAATCCACCATTATTGATTCTCCAAGGTTT
TCTCACAGAGGAATTTTGATTGATACATCCAGACATTATCTGCCAGTTAAGATTATCTTAAAACTCTGGATGCC
ATGGCTTTTAATAAGTTTAAATGTTCTTCACTGGCACATAGTTGATGACCAGTCTTCCCATATCAGAGCATCACT
TTTCTGAGTTAAGCAATAAAGGAAGCTATTCTTTGTCTCATGTTTATACACCAAATGATGTCCGTATGGTGATT
GAATATGCCAGATTACGAGGAATTCGAGTCCTGCCAGAATTTGATACCCCTGGGCATACACTATCTTGGGGAAAA
GGTCAGAAAGACCTCCTGACTCCATGTTACAGTAGACAAAACAAGTTGGACTCTTTTGGACCTATAAACCCCTACT
CTGAATACAACATACAGCTTCCTTACTACATTTTCAAAGAAATTAGTGAGGTGTTCCAGATCAATTCATTCAT
TTGGGAGGAGATGAAGTGGAATTTAAATGTTGGGAATCAAATCCAAAAATTCAAGATTTTCATGAGGCAAAAAGGC
TTTGGCACAGATTTTAAGAACTAGAATCTTTCTACATTCAAAAGGTTTGGATATTATTGCAACCATAAACAAG
GGATCCATTGTCTGGCAGGAGGTTTTTGATGATAAAGCAAAGCTTGCGCCGGGCACAATAGTTGAAGTATGGAAA
GACAGCGCATATCCTGAGGAATCAGTAGAGTCACAGCATCTGGCTTCCCTGTAATCCTTTCTGCTCCTTGGTAC
TTAGATTTGATTAGCTATGGACAAGATTGGAGGAAATACTATAAAGTGGAACTCTTGATTTTGGCGGTACTCAG
AAACAGAAACAACCTTTTCATTGGTGGAGAAGCTTGTCTATGGGGAGAATATGTGGATGCAACTAACCTCACTCCA
AGATTATGGCCTCGGGCAAGTGCTGTTGGTGAGAGACTCTGGAGTTCCAAAGATGTCAGAGATATGGATGACGCC
TATGACAGACTGACAAGGCACCGCTGCAGGATGGTGAACGTGGAATAGCTGCACAACCTCTTTATGCTGGATAT
TGTAAACCATGAGAACATGTAAAAAATGGAGGGGAAAAAGGCCACAGCAATCTGTACTACAATCAACTTTATTTTG
AAATCATGTAAATAAGATATTAGACTTTTTTGAATAAAATATTTTATTGATTGAA

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FIGURE 1628

MELCGLGLPRPPMLLALLLATLLAAMLALLTQVALVVQVAEAAARAPSVSAKPGPALWPLPLSVKMTPNLLHLAPE
NFIYISHSPNSTAGP SCTLLEEAFRRYHGYIFGFYKWHHEPAEFQAKTQVQQLVSITLQSECDAFPNISSDESIT
LLVKEPVAVLKANRVWGALRGLETFSQLVYQDSYGTFTINESTIIDSPRFSHRGILIDTSRHYLPVKIILKTDA
MAFNKFNVLHWHIVDDQSFPYQSITFPELSNKGSYSLSHVYTPNDVRMVIEYARLRGIRVLPEFDTPGHTLSWGK
GQKDLLTPCYSRQNKLDSEFGPINPTLNTTYSFLTTFKEISEVFPDQFIHLGGDEVEFKCWESNPKIQDFMRQKG
FGTDFKKLESFYIQKVLDIATINKGSIVWQEVFDDKAKLAPGTIVEVWKDSAYPEELSRVTASGFPVILSAPWY
LDLISYGQDWRKYYKVEPLDFGGTQKQQLFIGGEACLWGEYVDATNLTPRLWPRASAVGERLWSSKDVRMDDA
YDRLTRHRCRMVERGIAAQPLYAGYCNHENM

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FIGURE 1629

ATGGAAGAAGATGAGTTCATTGGAGAAAAACATTCCAACGTTATTGTGCAGAATTCATTAAACATTACAACAG
ATAGGTGATAGTTGGGAATGGAGACCATCAAAGGACTGTTCTGATGGCTACATGTGCAAAATACACTTTCAAATT
AAGAATGGGTCTGTGATGTCACATCTAGGAGCATCTACCCATGGACAGACATGTCTTCCCATGGAGGAGGCTTTC
GAGCTACCCTTGGATGATTGTGAAGTGATTGAACTGCAGCAGCGTCCGAAGTGATTAAATATGAGTATCATGTC
TTATATTCTGTAGCTACCAAGTGCCTGTACTTTACTTTAGGGCAAGCTTTTATAGATGGGAGACCTTTAACTCTG
AAGGACATATGGGAAGGAGTTCATGAGTGCTATAAGATGCGACTGCTACAGGGACCATGGGACACTATTACGCAA
CAGGAACATCCAATACTTGGGCAACCCTTTTTGTACTTCATCCCTGCAAGACGAATGAATTCATGACTCCTGTA
TTAAAGAATTCTCAGAAAATCAATAAGAATGTCAACTATATCACATCATGGCTGAGCATGTAGGGCCAGTTGTT
GGGCTGAATCTACCTCTGAGTTATGCCAAAGCAACGTCTCAGGATGAACGAAATGTCCCTTAA

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FIGURE 1630

MEEDFIGEKTQRYCAEFIKHSQQIGDSWEWRPSKDCSDGYMCKIHFQIKNGSVMSHLGASTHGQTCLPMEEAF
ELPLDDCEVIETAAASEVIKYEYHVLYSCSYQVPVLYFRASFLDGRPLTLKDIWEGVHECYKMRLQGPWDTITQ
QEHPILGQPPFVLHPCKTNEFMTFVLKNSQKINKNVNYITSWLSIVGPVVGLNLPLSYAKATSQDERNVP

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FIGURE 1631

TTTGCAGATGACGCCGCCGAGGAAAAC TGTGTACTATTAGCCATGGTCAACCCCAACCGTGTTCTTCGACATTGCC
GTCGATGGCGAGCCCTTGGGCCGCGTCTCCTTTGAGCTGTTAGCTGACAAGGTCCCAAAGACAGCAGAAAATTTT
CATGCTCTGAGCACTGGAGAGAAAGGATTGGTTATAAGGGTTCCTGCTTTCACAGAATTATTCCAGGGTTTATG
TGTCAGGGTGGTGACTTCACACGCCATAATGGCACTAGTGCCAAGTCCATCTATGGGGAGAAATTTGAAGATGAG
AACTTCATCCTAAAGCATACAGGTCCCTGGCATCTTGTCCATGGCAAATGCTGGACCCAACACAAATGGCTCCAG
TTTTTCATCTGCACTGCCAAGACTGAGTGGTTGGATGGCATGCATGTGATCTGTGGCAAAGTGAAAGAAGGCATG
AATATTGTGGAGGTCATGGAGTGCTTTGGGTCCAGGAATGGCAAGACCAGCAAGAAGATCACCATTGCTGACTGT
GGACAACTCGAATAAGTTTGACTTGTGTTTTATCTTAACCACCAGACCATTCCCTTCTGTAGCTCAGGAGAGCACC
CCTCCATCCCATTGCTCGCAGTATCCTAGAATCTTTGTGCTCTCGCTGCAGTTCCTTTGGGTTCCATGTTTTC
CTTGTCCCTCCCATGCCTAGCTGGATTGCAGAGTTAAGTTTATGATTATGAAATAAAAACTAAATAACAA

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FIGURE 1632

CTCTTTCGCTCAGGCCCGTGGCGCCGACAGGATGGGCAAGTGTCGTGGACTTCGTACTGCTAGGAAGCTCCGTAG
TCACCGACGAGACCAGAAGTGGCATGATAAACAGTATAAGAAAGCTCATTGGGCACAGCCCTAAAGGCCAACCC
TTTTGGAGGTGCTTCTCATGCAAAAGGAATCGTGCTGGAAAAAGTAGGAGTTGAAGCCAAACAGCCAAATTCTGC
CATTAGGAAGTGTGTAAGGGTCCAGCTGATCAAGAATGGCAAGAAAATCACAGCCTTTGTACCCAATGACGGTTG
CTTGAACTTTATTGAGGAAAATGATGAAGTTCTGGTTGCTGGATTGGTCGCAAAGGTCATGCTGTTGGTGATAT
TCCTGGAGTCCGCTTTAAGGTTGTCAAAGTAGCCAATGTTTCTCTTTGGCCCTATACAAAGGCAAGAAGGAAAG
ACCAAGATCATAAATATTAATGGTGAAAACACTGTAGTAATAAATTTTCATATGCC

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FIGURE 1633

MGKCRGLRTARKLRSHRRDQKWHDKQYKKAHLGTALKANPFGGASHAKGIVLEKVGVEAKQPNSAIRKCVRVQLI
KNGKKITAFVPNDGCLNFIENDEVLVAGFGRKGHAVGDIPGVRFKVVKVANVSLALYKGKKERPRS

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FIGURE 1634

TTTATTTTAATTGCCGTAAAGGAAGTATTTTTGTTTTGTTTTTTAACACAGCACTTTAAATCCAGTTTGTGTT
TTGTCAACTTGAAGTGAATCTCTTTTGTACTTTGGAGGTGATAAATAGTTTTCAAATCTGCTGATTTGTATAC
TGTGGCACAAGTATCTTTGAAGTGTAGTGAAAGGAGACCTTCAACAATTTTAGTCTAGGCGAGAGGAATAT
TAGGAATGTGACTTCTAAATTTTACAATAGAGCAGTTATTTAAGGTCATGGTTAACATTTCTTAAGGTTCAACT
AAAATTCAGTTAAATTTTACAGAGCTACGAGGAAGTAAATCTTAGCTAAAAATACCTGTTGTAGATAGTATTAA
TTAGATTGTTTGCAGCTATTAATTCATCATAAAGATAAAATGAAGAACTCTCCCTTTTTTAAACAATAAAAAAT
TATTCTAGATTAAATAGGCTAGTAGTTATTTCTGCAGAAACAACGTATGGAAGTGAAGCCACCTATTTTATTT
TAGACTAATTTAAACCAGTTGGAATGGATTCTAGGAAACATCTTAAGCTTGTGTGTTGCCTGTGGTGGTTTTTG
TTTGGGGGTGTTTTTGGTTTTGGTTTTGATTTTCTGTATTTGTTATCTGGGGATTTTTGTTTGTGTTTGTGTTG
TTTGGTTTTGGTTTTATTTTTTGGCATGTCTATGGCAGTTAAAGTGGTATATTTTGCTTTAGATAGGGAATCA
GGTTATAATCATTGTTCTTCTCTAAAGTGCCTCTTGGGCTTTACATCAGGTCAAGGATTTTTAGGGTTTCTCAA
AAATAGGATTCTTGTGAGTGTATGCATGCTGAGTAAGTCACCTTTCTGGCTCTAATTTCTGGGTGGCCATCTGTT
GTCCAGCTCTGCTGCCAAGTGGACTTTCCGAAAGCCATGTCAACTAATTTTTATATGCTAAGACAAATCGAATA
TGAAAAGAGGAAGAATATTCTAGATATTCTAAGACATTTCTAATTTGGCATCTCAGAGGAGGTAGGTGGAAGT
AAAGGAAGAGATAATTTGGGGGAAAATTTGTGGAACATACAAAACGTTTTGCTTTGTATAGATGCTAAACAGA
GTGGGAGGCAGCATATTTGTAACAACAACCATCTGACCTTTTGAAACACAAGCTTTTGAGAGAAGTCAGGGAGAG
ACACAGTATGAATAAAAGCAATTAACATTTTCTTAAATGTATATTTTCAAAGAGGACCACGGAATCCTGTTCTC
TAACCCAGGGGCAGTGTAGGTGGTTTTAAGCCACAGAATATTGAGATATTTCTCTGTGGTTTTGGTGGGGTG
GTGGGATGCAGAAGGTTATTAAAGATCAATTTAAGCATCAGATAGACTATCCCTTTATTTTTTAACTTTTAGG
TTCAGGGGTACATGTGCAGGTGTTATATAGGTAAACTCATGTCAAGTGGTTTTGTTGTACAGATTATTTTGTCA
CCCAGGTGCTAAGCCTAGTACCCAGTAGTTATTTCCCTGCTCTCTCCCTCCTCCACCCTCCACCCTCAAGTA
GGCCCCAGTGTCTGTTGTTCTTTCTTTGTGCTCTGAGTTCTCATCATTAGCTCCTACTTCTAAATGAGAACA
TGTATTTGGTTTTCTGTTCTGTGTTAGTTTGTCTAAGGATAATGGCCTCCAGCTCAGATGGAATATCTCTATATA
TAGACTGTTGTTACAGGGCAGGATCGGATGTAGGACACTGAAGTCCCTCAGCTTGCTAAGTTAGTTGCTCTCCC
TAGCCTCCTTTTGGCTTCAGAGTCTTTTGATTCCATCTATCCTGGTATTTTTTGTGTGCTGATGTTTCTCTGG
ATTGGCTTCAGCTGTGCTAATAGGAAGGGCGTTGTCTTTTCAAGCAATCTTAAAGGTGGTCAATCAAAAGGCCA
GAGTCTGAATCCCTTCTGTGGCTTAAATAATTTGAGGATCAAGTCCAGTGTCTTGTAAATCCCTGTTCTACTGTG
CCAGACACTATCTTGAATGCTTTTATATGTTGAGGTTCAAAATCGCTCTTTTATACCAGGGGATGATAGTAACGT
GTAACCTTGCAATAGATTCTTCTATCTTAGTAATAAGATGATCAGTCTAGTTAGGACAAAATAGAGATTGAATAAA
TTAACTTTTCCAAGTTTACAGAGTAAAAATGAGCAGATCTCTGCCTGGTTTTTGTGAAAAAGAGTTAGCACTGGTA
AATAGAATATTTCTACTCTACACCATTTCTTTAGTATATCATCACTGAAGACAGGAAGATAGGCACACAGATTC
TTCTCTGATGTAATTCATAGTGCAGTGGTGAAGAGATGAAGTATGTAATTAAGTACAATGTGATGGCATTTA
TTATTAGATAATCCCAGGATTCTAGAAGAAAAATAAGAGAGTGACAGTTGAGTTAGGGTGTGAAGTTCCAGAG
GAGCACTGCTTAAGCTGAAGTTGAGAGCATTGTGCAAAAGCACAGTAGTCTGTTAAGAACTAGAAATAACCTAGC
TTGTGCCACTTCGGGAGTATTAAGACATAAGCCTAGAAAGGTAGGCAAAGGTTAGATCTTAGACTGTCTGTATT
TTTCTCATTCTGTTGATTACCTACCTCAAAATGAATATGTTTTTCTCCTGCCTAACACAAAACCTACTCAAGG
GCAGAAATTTAAATTTCTTCTGTTGATGTGCAAGAGGTTGAATATATTATGCCTACCTTATTTTGGACTA
GGAATACAGTAGTATACCTTTCCGAAGACTTGCCTGAATAGTATATAAGGTGGAGGCAACTGACTAGTTAGGTGAG
TATTTTTAGAACTCTTAATAGCTCATACTCTTGATACCAAAAGCAGCCCTGATTGTTAAAGCACACACCTGCAC
AAGAAGCAGTGATGGTTGCATTACATTTCTGGGTGCACAAAAAATTCTCAAAAGCAAGGACTTACGCTT
TTTGCAAAGCCTTTGAGAAGTTACTGGATCATAGGAAGCTTATAACAAGAATGGAAGATTCTTAAATAACTCACT
TTCTTTGGTATCCAGTAACAGTAGATGTTCAAAATATGTAGCTGATTAATACCAGCATTGTGAACGCTGTACAAC
CTTGTTGGTTATTACTAAGCAAGTTACTACTAGCTTCTGAAAAGTAGCTTCATAATTAATGTTATTTATACACTGC
CTTCCATGACTTTTACTTTGCCCTAAGCTAATCTCCAAATCTGAAATGCTACTCCAATATCAGAAAAAAGGGG
GAGGTGGAATTATATTTCTGTGATTTAAGAGTACAGAGAATCATGCACATCTCTGATTAGTTTATATATGTCT
AGTGTGTAATAAAGTCAAGATGAAGTCTC

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FIGURE 1635

MASSSDGISLSYRPVVTGQDRMMDTEVLSLLSSVALPSLLLASESFDSIYPGIFCVLMFSSGLASAVLIGRALSF
QAILKGGQSKGQSLNPF CGLNNLRIKSSVLLIPVLLCQTLS

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FIGURE 1636

CGGGATTAGATCACGTCCCGCAGGCCGCGGGAAGTAGCTGATACTCTCATTGGTTGCAAAACCTTGATCTGTGA
AAGCGGGCGTTTTTGAAGATACCGGAAGTAGAGTCACGGAGAGGTATTAAGAAATCGAGAGAAAAATAAGCAGAA
TCCACCTTGTTTCTGAACCCAGTATAACTCATTTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTGGTTTTG
TTATTACACTTACTGATGGTCATTGAGCATGGACTGGGACAGTTTCTGAATCAGAGATTTCCCAAGAAGCTGATG
ACATGGCAATGGAAAAAGGGAAATATGTTGGTGAAGTGAAGAAAGCATTGTTGTCAGGAGCAGGACCAGCTGATG
TATACACGTTTAATTTTTCTAAAGAGTCTTGTTATTTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTGAGAC
TTGGTTCCTTCAACCTAGAGAAAGTTGAAAACCCAGCTGAAGTCATTAGAGAAGTATTTGTTATTGCTTGGACA
CCATTGCAGAAAATCAAGCCAAAAATGAGCACCTGCAGAAAGAAAAATGAAAGGCTTCTGAGAGATTGGAATGATG
TTCAAGGACGATTTGAAAAATGTGTGAGTGCTAAGGAAGCTTTGGGAGACTGATCTTTATAAGCGGTTTATTCTGG
TGTTGAATGAGAAGAAAACAAAAATCAGAAGTTTGATAATAAATTATTAAATGCAGCTCAAGAACGAGAAAAGG
ACATCAAACAAGAAGGGGAAACTGCAATCTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTA
CTGATGAGGAAAGTGAAGAACCAAACTGATCTCTCTGGGTTGGCTTCAGCTGCTGTAAGTAAAGATGATTCCATTA
TTTCAAGTCTTGATGTCAGTATGATGACCAAGTAGAAAAAGGAGACAGCGAATGCAAAGAAATCTTGGGACAG
AACCTAAAATGGCTCCTCAGGAGAATCAGCTTCAAGAAAAGGAAAAGCCTGATTCTTCACTACCTGAGACGTCGA
AAAAGGAGCACATCTCAGCTGAAAACATGTCTTTAGAACTCTGAGAAACAGCAGCCCAGAAGACCTCTTGATG
AGATTTAACAGTCTCAAAAAATACTTTGATGTTCACTAGACTATGTTTTCTATTCAATTTCTTTAAATGAAAAAG
GAGAATTTCAAGTCAGCAGCCGCTATTACCGTATCTTACAATTTAATTACATACACAGTGAATTGAAACCATG
GCAAAATGGATTACACATGTATACAAAGATACGATTTGATGATGACACTGGCACATTGAGTTCTAACTATTCAT
TCAGCATGCCTATAATTACATAAATTGTATGAGACTTTTTGTTGCAAAGGACACATTTATCATATTCATTCACAC
ATATTATATGTGATAGCTGTCCAACATCCTGTCTGGGAAGATTTTGAAAACAGGACAAAGAAAACATCATTTTAA
AATGTCTTCAGCTTTTTTTGAATAGACGTATTCAAACATATTCTGAACATTGATGTTTGAACATTTTAAATTTGTG
TGATGATGTAGAAAATATAATTTTAGTTGTACATAAACATTGTGAAAATCTGATAATAAAATTTTGTATACATT
GAAAAA

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FIGURE 1637

MERKISRHLVSEPSITHFLQVSWEKTLES GFVITLTDGHS AWTVSESEISQEADD MAMEKGKYVGELRKALL
SGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELICyclDTIAENQAKNEHLQKENER
LLRDWNDVQGRFEKCVSAKEALETDL YKRFILVLNEKTKIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADR
DPVYDESTDEESENQTDLSGLASAAVSKDDSI ISSLDVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKEKPD
SSLPETSKKEHISAENMSLET LRNSSPEDLFDEI

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FIGURE 1638

CGGGATTTAGATCACGTCCCGCAGGCCGGCGGAAGTAGCTGATACTCTCATTGGTTGCAAAACCTTGATCTGTGA
AAGCGGGCGTTTTGGAAGATACCGGAAGTAGAGTCACGGAGAGGTAGGATCCGGAAGTGGGGCTGCCTCTTTAA
TAACAAAAATCTGAGGTATTAAGAAATGGAGAGAAAAATAAGCAGAATCCACCTTGTTTCTGAACCCAGTATAAC
TCATTTTCTACAAGTATCTTGGGAGAAAACACTGGAATCTGGTTTTGTTATTACACTTACTGATGGTCATTTCAGC
ATGGACTGGGACAGTTTCTGAATCAGAGATTTCCCAAGAAGCTGATGACATGGCAATGGAAAAAGGGAAATATGT
TGGTGAAC TGAGAAAAGCATTGTTGTCAGGAGCAGGACCAGCTGATGTATACACGTTTAATTTTTCTAAAGAGTC
TTGTTATTTCTTCTTTGAGAAAAACCTGAAAGATGTCTCATTTCAGACTTGGTTCCTTCAACCTAGAGAAAAGTTGA
AAACCCAGCTGAAGTCATTAGAGAACTTATTTGTTATTGCTTGGACACCATTGCAGAAAATCAAGCCAAAAATGA
GCACCTGCAGAAAAGAAAATGAAAGGCTTCTGAGAGATTGGAATGATGTTCAAGGACGATTTGAAAAATGTGTGAG
TGCTAAGGAAGCTTTGGAGACTGATCTTTATAAGCGGTTTATTCTGGTGTGTAATGAGAAGAAAACAAAAATCAG
AAGTTTGATAATAAATTATTAATGCAGCTCAAGAACGAGAAAAGGACATCAACAAGAAGGGGAAACTGCAAT
CTGTTCTGAAATGACTGCTGACCGAGATCCAGTCTATGATGAGAGTACTGATGAGGAAAGTGAACCAAACTGA
TCTCTCIGGGTTGGCTTCAGCTGCTGTAAGTAAAGATGATTCCATTATTTCAAGTCTTGATGTCACIGATATTGC
ACCAAGTAGAAAAAGGAGACAGCGAATGCAAGAAATCTTGGGACAGAACCTAAATGGCTCCTCAGGAGAATCA
GCTTCAAGAAAAGGAAAAGCCTGATTCTTCACTACCTGAGACGTCGAAAAAGGAGCACATCTCAGCTGAAAACAT
GTCTTTAGAACTCTGAGAAACAGCAGCCAGAACCTCTTTGATGAGATTTAACAGTCTCAAAAAATACTTTG
ATGTTCACTAGACTATGTTTTCTATTCTTTTAAATGAAAAAGGAGAATTTCAAGTCAGCAGCCGCTATTA
CCGTATCTTACAATTTAATTACATACACAGTGAATTGAAACCATTGTGCAAAATGGATTACACATGTATACAAAG
ATACGATTTGATGATGACACTGGCACATTGAGTTCTAACTATTTCATTTCAGCATGCCTATAATTACATAAATTGT
ATGAGACTTTTGTGCAAAGGACACATTTATCATATTTCATTACACATATTATATGTGATAGCTGTCCAACATC
CTGTCTGGGAAGATTTTGAACAGGACAAAGAAAACATCATTTTAAATGTCTTCAGCTTTTTTTGAATAGACG
TATTCAAACATATTCTGAACATTGATGTTTGAACATTTAATTTGTGTGATGATGTAGAAAATATAATTTAGTT
TGTACATAAACATTGTGAAAATCTGATAATAAAATTTTGATACATTGAAAAAAA

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FIGURE 1639

MERKISRHLVSEPSITHFLQVSWEKTLES GFVITLTDGHS AWTVSESEISQEADD MAMEKGKYVGELRKALL
SGAGPADVYTFNFSKESCYFFFEKNLKDVSFRLGSFNLEKVENPAEVIRELICYCLDTIAENQAKNEHLQKENER
LLRDWNDVQGRFEKCVSAKEALETDL YKR FILVLNEKKT KIRSLHNKLLNAAQEREKDIKQEGETAICSEMTADR
DPVYDESTDEESENQTDLSGLASAAVSKDDSIISLDVTDIAPSRKRRQRMQRNLGTEPKMAPQENQLQEKEKPD
SSLPETSKKEHISAENMSLETLRNSSPEDLFDEI

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FIGURE 1640

AGGTAAACAGAATCTGGTGATTATGGGTAAGAAGACCTGGTTCTCCATTCTGAGAAGAATCGACCTTTAAAGGG
TAGAATTAATTTAGTTCTCAGCAGAGAACTCAAGGAACCTCCACAAGGAGCTCATTCTTTCCAGAAGTCTAGA
TGATGCCTTAAACTTACTGAACAACCAGAATTAGCAAATAAAGTAGACATGGTCTGGATAGTTGGTGGCAGTTC
TGTTTATAAGGAAGCCATGAATCACCCAGGCCATCTTAACTATTGTGACAAGGATCATGCAAGACTTTGAAAG
TGACACGTTTTTTCCAGAAATTGATTTGGAGAAATATAAACTTCTGCCAGAATACCCAGGTGTTCTCTCTGATGT
CCAGGAGGAGAAAGGCATTAAGTACAAATTTGAAGTATATGAGAAGAATGATTAATATGAAGGTGTTTTCTAGTT
TAAGTTGTTCCCTCCCTCTGAAAAAGTATGATTTTTTACATTAGAAAAGGTTTTTTGTTGACTTTAGATCTA
TAATTATTTCTAAGCAACTAGTTTTTATTCCCCACTACTCTGTCTCTATCAGATACCATTTATGAGACATTCTT
GCTATAACTAAGTGCTTCTCCAAGACCCCACTGAGTCCCCAGCACCTGCTACAGTGAGCTGCCATTCCACACCC
ATCACATGTGGCACTCTTGCCAGTCCTTGACATTGTGCGGCTTTTACATGTTGGTAATATTTATTAAAGATGAA
GATCCACATACCCTTCAACTGAGCAGTTTCACTAGTGGAATACCAAAAGCTTCTACGTGTATATCCAGAGGTT
TGTAATAAATGTTGCCACCTTGTTTGTAACAGTGAAAAATTGAAAAACAACCTGGAAGTCCAGTGATGGGAAAAAT
GAGTATGTTTCTGTCTTAGATTGGGGAACCCAAAGCAGATTGCAAGACTGAAATTCAGTGAAAGCAGTGATTTT
GCTAGGTCATACCAGAAATCATCAATTGAGGTACGGAGAACTGAACTGAGAAGGTAAGAAAAGCAATTTAAAGT
CAGCGAGCAGGTTCTCATTGATAACAAGCTCCATACTGCTGAGATACAGGGAAATGGAGGGGGGAAAGCTGGAGT
ATTGATCCCGCCCCCTCTTGGTTGTCAGCTCCCTGTCTGTGTGTGGGCGGAACATAGTCCAGCTGCTCTATA
GCAAGTCTCAGGTGTTTGCACTAAGAAGCTGCTGGCATGCACGGGAACAGTGAATGCCAAACACTTAAAGCAATT
CGATGTTTAAAGTATGTAAGTTCTTTTTTTTTTAGACAGCGTTTCGCTCTTGTGCCCAGGCTAGCATGCAATGGT
GTGACCTCGGCTTACTGCAACCTCCGCCTTCCAGATTCAAGCGATTCTCCTGCCCTCAGGCTCCCAAGTAGCTAG
GACCAGGTGCGCGCCACCACGCCCGGCTAATTTTTGTATTTTGTATTTTAGTAGAGATGGGGTTTACCATGTT
GGTCAGGCTAGTCTCGAAGTCTGTGACCGCAAGCGATTACCCACCTCAGCCTCCCAAAGTGCTGGGATTACCGGC
TTGAGCCACCACACCCGGCACATCTTCATTCTTTTATGTAGTAAAAAGTATAAGGCCACACATGGTTTATTGTA
AGTATTTTATAATTTAAAAAATACAGAAGCAGGAAAAACCAATTATAAGTTCAAGTGAGGGATGATGGTTGCTTG
AACCAGAGGTTGTCATGTAGTAAGAAATTGTGATTTAAGATATATTTTAAAGTTATAAGTAGCAGGATATTCTGA
TGGAGTTTACTTTGGTTTTGGGCCCAGGGAGTTTCAGATGCCTTGAGAAATGAATGAAGTAGAGAGAAAAATAA
AAGAAAAACAGCCAGGCACAGTGGCTCACACCTGTAATCCCAGCGCTTTGGGAGGCTAAGGCAGGCAGATCACT
TGAGACCAGCTTGGGCAACATGGCAAAGCCCCATCTCTACAAAAACACAAAAATTAGCTGGGCATTGTGGCGCA
CACCTGTATTCCCATCTAGTCAGGAAGCTGAGATGGAAGAATTAATTGAGCCCACGAGTTCAAGGCTGCAGTGAG
TCGTGATTGTGCCACTGCACTCCAGCCGGGTGACAGAAGAGACCTTGTCTCGAAAAGGAATCTGAAAAAATGG
AACCATGCCTTCATAATTCTAGAAAGTTATTTCAACTGATAAATCTATATTACCCAAATAATCAAGGGTGAAG
GTAAAAATAATACATTTTGTAGACAAGCAAAGACTCAGGGGTTACCTCCATGTGCCCTTTTGTAGGGAAGCTGTTGA
GAAAATACTCCAGCAAAATGAAGGAGTACACAAACCAGAGAATGACATGAATCCAGCAAATAGGATCCAACACAG
GCAATATTCCAGCTATGGAGCTAGCTTTAAAAAGGAACAGTAAAAATATTAATCGGTTAGCTGGGTGGAATGGCC
CATGCCTGTAGTCCCAGCTACTCAGGAGGCTCAGCAGCAGGACGACTTGAGCCCAAGAGTTCCAGACCAGCCTGG
CCACCTTAGTGAGATCCCTTCTCTTAAAAATAAATACTTATTGCCAGATTGCGGCATTGGAAGAAGTTTCATT
GAAGATAAAGCAAAAGTAAAAAAGGAGGAAAGGTTGGTTAGGCAATCATTCTAGGGCA
GAAAGAAGTACAGGATAGGAAGAGCATAATACACTGTTTTTCTCAACAAGGAGCAGTATGTACACAGTCATAATG
ATGTGACTGCTTAGCCCCATAATATGGTAACACTACTCTGGGACAATATGGGAGGAAAAGTGAAGATTGTGATGGTG
TAAGAGCTAAATCCTCATCTGTCTATATCCAGAAATCACTATATAATATATAATGAAGTACTAAGTTATGTG
AGGAAAAAACAAGACATTGCTAAAAGAGTTAAAGTCATTGCTCTGGAGAATTAGGAGGGATGGGCGAGGGG
ACTGTTAGATGCATTATAAACTGAAAAGCCTTTTAAAAATTTTATGTATTAATATATGCATTCACTTGAAAAAC
TAAAAAACAATAATTTGAAAAACCCATGAAGGTAACGGAAGGAAAACTAAGAGAATGAAAAGTATT
TGCCTTGGAAGAACAACCTGGCAGGACTGTTGTTTTTATTGTAAGACTTTTGGAGCCATTAAATTGTACTTAAC
CATTTTCATCTATTTCTTTAATAAGAACAATTCATCTTAATAAAGAGTTACACTTGTTAATA

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FIGURE 1641

TTACCTTCTACTGAAGAGGTTGTGGTCATTCTCTGGAAATATCTGAATTCATTCTGAGCGGTGGCCAGGGCAGG
TCCCCGTTCTTGCCGATGCCCATGTTCTGGGACACAGCGACGATGCAGTTTAGCGAACCAACCATGACAGCAGCG
GGAGGACCTCCGAGCCCGCTCGTTACAGCAGAACGCGCGGTCAAGTTTGGCGCGAAATTGTGGCCGCCCGCCCC
CTCGTCCCTATTTGTGCAGGCGAGGCCCCGCCCCCGCCCCGCGCGCACGCAGGGTCGCGGCGTGCTCGCGCCCG
CAGACGCCTGGGAACTGCGGCCG

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FIGURE 1642A

CTCCAATACCGCAGGAGGGCGGTCTTCCCCGGCTCGCCAACTCGGCTGCTCTGGGGGATTCTGCGCGGTAAGAA
GCTGCGCGGTAGCGCGGTGAGGTGAGGTTCTCAGCCACCAAAGCTGCAGGGTCTCGTCGTTCCCTCTGGCC
TGGCGGAACCTTGCCTGGGAAGCTGGGAGGACAGAAGGCTTAGCCGCTGGGTCCCTGAGCTGGCTGGAGCGCGGGC
TGCTAGGGGGCGCGACCTCAGCTGTTGGGCTCCGGCTGCTGGGGGCTGTGCGTCCAGCCGCCCTGGAATCCGCC
TGTGGGTGGGCGCTTGGCTCTCCCACTTCACCTCTTGATAACCCAGAGCCTCCCCCTTCCCACGTACGTAGGG
GAAGGATAATCTACTTCCCTTTTGAACAGCTTCGGTCCCCACTATGACAGTCGCATAAACTTCAGCGAAGAGTGCG
CTGGTAAAGTGGCATGGAGTTTCTCACACCAATTCATTGGGTCCACCCTTCAGCTTCTGTGGAAGGGGTCTTTCT
GTTACTAGGAGCTGAGACTTGGGGGGTTGCCAGGGATGCTGGTCTTAAAAGGTGATAATTTAGGCCGGGCGCGGT
GGCTCACGCCTGTAATCCCAGCACCTTGGGAGGTTCGAGGCGGGCAGATCTCCTGAGCTCAGGAGTTCGAGACCAC
CCTGGGCAACATGGTGAAACCCCTTCTCTACTAAATACAAAAATTAGCTGGGCGTGGTGGCACGCGCCTGTAA
TCCCAGCTATTCCGGGAGGCTGAGGCCCGAGAATCGCTTGAGCCCTGGCGGCAGAGGTTGCAGTGAGCCAAGATCG
CCCCTGCACTCCAGGTTGGGCTACAGAGTGAGACTCCGTCTCAACAACGACCACAACAACAAAAAGGTGG
TGGCTTAATACAGCCATGCTCCCTTAAAGAACTGGTATAGTTATGAGAAATGGTTGGGCGGTTTCGTGGTTGTGT
GAACATCATAGTGTACTTGCACAAACCTACACAGCTGGGCGGTATGGGATAGCCTGTTACTCCTAGTCTACAGAC
CTGTACAGTATACTACTAAATACGTAGGCAGTTGTAAAAGGATGGTGTGTATCTAAACACAGAAAAGATACTG
TAAAAATATAGTGTAAGAAAGAAACATGGTACAGCTGAATAGGGCACTTACGCATGGAGCTTGCAGGGCTGTCCGT
AGCTATTAAGTGAGTCAGTGAGTGGTATGTGAGTGTGAAGGCCACGATATTATTTAGGGTATTACTGTACACTA
CTGTAGACTTTTATAAATGCGGTATGCTTAGTCTAAGTTTATTAAAAATAAGGTAATAACCTTAGCTTACTGTGCT
TTTTAACTTTTATAAATTTTAAATTAATTTTAACTCCTTGACCTTTTTTTTTTTTTTTTGAGACGGAGTTTATTC
TCTCTGTCTCTCATTTTTGAGACAGAGTTTGTCTTGTGCAACCAGGCTGGAGTGCAGTGGCGCAATCTCAGCTC
ACTGCAACGTCCACCTCTTGAGTTCAAGCGATTCTCCTGCCCTCAGCTTCCCAGGTGGTGCAGCGCCTGTAGCTGGG
ACTACAAGAGTGCGCCACCACGCCAGCTAATTTTTGTATTTTTAGTAGAGATGGGGTTTGACCATGTTGGCCAG
GATGGTCTCGATACTCTGACCTTGTGATCCACCTGGCCTTGGCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCC
ACCATACCCGGCCCACTCTTTTGTAAATAACACTTAGCTTAAATGCTAATGTGTGTATAGCTATATAAAAAATAT
TTTCTTTATTCCCTTACATTATTCTATAGCTTTTTCTGTAAAAATTTTTTTTGTGTATATAAATAAGACACAC
ACATTGTCCTACACCGGGTCAGGAGCATCAATATCACTCTTTCTTCTCCACATCTTGCTCTACTGGAAGGTT
TTCAGGGGCAGTAACATGAATGGAGCTGTCTCTCTATAATAACTGCTTTTTTCTGGAATACTTATAATTGTCT
AGTATTATGTACAGTACATCATTGTAAGCATTATGCTTGTATATGACTGGCATCCCAGGTTTGTTTACACCAGCA
TTACCACAGACATGAGTAATGTGTTACACTACAAGTTATGAGGGCTACAAAGTCAATAGGAATTTTCAGCTCCA
TTATAATCATCTGAGACCAGTATCATGTGTGTCAGTCGCTGTTGACCTAAATGTTATGTAGCATGTGACTAGCTGA
TGAATCTTTGATTATGGCTGAATGTTCTCATTTCATTGCAGGAAAAAATATCCTCCAAATCACTAGGTAGTATGT
AAGTGACCAAACTTTTTCCATTTTATGTTGGAGCCAAATCATTAGTGTAGGATAAATTACTTCTTTATGTAT
GTGCTCTAAAATGAAAAGTTATTTCTGAATATTAAGCATATGTATTAAGAGTATAAAAACAAGATACAGATTTT
GGTGTGAAATATATCTTATGATTCAAGTCATAATTTAAATAGAATTGAAGATGATGTGAAATCACTGGGCTGGAA
GTAGCTTATACCTTGATTAGTAAGAGGAAGCCCGGATCATCCTGTGATGGTAAACACTTTTATATGTTTTACTT
ATACTTTGCCAGGAAATTTCAACAACTTCATATTAAGGACATGATTTCTGTATACTTAGTAATCTGCTATGC
AAATTGTTGCATTGAAATGGCAGACGAAGCAAGAAGATTGGGAGAAAGTAGCTGTGGGACTTGGAGATAGGAAAA
TAAACAGCCGGGAAACTGCAGAAATGTGGGAGGAATAATTGCATTCATTGTATTACTATCTGATTATATTTTAT
GAAATAATTTGGTTTCTTAAGATAGTTTTTCAATTTTAAGCACACCTTTTTTAAGTGGTGTGGCAGCTTTTCTGG
TAAGTGGTAGATTTATGTTAGAAGCATGTCTATGCAGCATATTATAGCATTAAATATGTATACAGATATCTAACT
GAAATAAAAAGTGTTTTTAATAATTAAGGTTTAAACATATGGGCATATGTGACATATAGTGATATAGCATGTCTCT
TTAGTTTTGTGTTTTTGTGTTGATGGCTAACCCCATGCTTGCTTAAAAATTGATAAGGTACCACTGATGA
AATTATGACCAGGTGGGCGGAGTTAGTACCACATATAACAAGAGACCCTTGCCCTGCAACATCATGGGAGGACAT
GAAGAAGGGATCCTTTGAGGGAACAAGCCAAACCTACCAAAGCGTAAACAACCTTGAAGCCAATAGGCTATCCCT
CAAAAATGATGCACCCCAAGCAAAACATAAAAAGAACAAGAAAAAGAGTACTTAAATGAAGATGTGAATGG
ATTCATGGAATACCTAAGACAGAATTCACAGATGGTTTCAATGGGCAAAATTATAGCAACAGACAGTGAGGAAGT
AAGGGAAGAAATTGCAGTTGCTTTAAAGAAAGACAGTCGACGGGAAGGAAGAAGATTAAAAAGACAAGCGGCAAA
GAAAAATGCAATGGTGTGTTTCCATTGTAGAAAACCTGGTCATGGAATTGCAGATTGCCCCGCCGCCCTTGAAAA

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FIGURE 1642B

TCAAGACATGGGCACTGGGATATGTTACAGGTGTGGGTCCACAGAGCACGAAATAACCAAGTGTAAGGCTAAAGT
AGACCCGGCTCTTGGCGAATTTCCCTTTTGCAAAATGTTTTGTTTGTGGAGAAATGGGGCACCTGTCTAGATCTTG
TCCTGATAATCCCAAAGGACTCTATGCTGATGGTGGCGGTTGCAAACTTTGTGGCTCTGTGGAACATTTAAAGAA
AGATTGCCCTGAAAGTCAGAATTCAGAGCGAATGGTCACAGTTGGTCGCTGGGCAAAGGGAATGAGTGCAGACTA
TGAAGAAATTTTGATGTACCTAAACCGCAAAAACCCAAAACAAAATACCTAAAGTTGTTAATTTTTCGATAACA
GCTAGCACTATCATGAGTTACTACCTCATTGTTACTTTCTAAACCAGGCCCGCTTCACGAGTTAGAGTTGAGCTC
CCCTGTAGCCAGGACTATGCTGTAGATATCAGTATGATCTGGGTGTGGCCAAAACAATTTTCTTTATTCTGTCT
ATCAATAGTACTTCTACCACTGTTTGGAGAAAATTGAAGAAAAGAATAAGATGATTAAATGAATTCTCTAAAAG
AACATATTTTAAGAGACAGAACTTAGACATAACCAAGTAGTTGTATACCTGATTGTAACAATCATCTTTTATAAA
AGCAAAATTATGCATAAATGTAAACACCCCTAAACAAAGGGAACAAATGAATTTTGGTTATATTGTTTTCTTG
GCTCAAAGTATCAATTTATTATTATAATAGAAATTTATAAGTTGCTAGAAAGTCTATATTTTAAAGTACGGAAT
AAAAATATGTTTTCTATTAAAGCAATAGAAATATTTTGTGTATAATTTTCTGAATACTTGATTCTCGATTGAAA
TATCCATTGTTTCGTTAATATCCATGTAACAATCCATTGGAAACAAGATTTTTTGAATCCTAGATGAGAATAAA
CAGGGATTGGTTTTTGTTTTAGTTTTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1643

MTRWARVSTTYNKRPLPATSWEDMKKGSFEGTSQNLPRKQLEANRLSLKNDAPQAKHKKNNKKKEYLNEDVNGF
MEYLRQNSQMVHNGQIIATDSEEVREEIAVALKKDSRREGRRLLKRQAAKKNAMVCFHCRKPGHGIADCPAALNQ
DMGTGICYRCGSTEHEITKCKAKVDPALGEFFFAKCFVCGEMGHLSRSCPDNPKGLYADGGGCKLCGSVEHLKKD
CPESQNSERMVTVGRWAKGMSADYEEILDVPPKPKPKTKIPKVVNF

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FIGURE 1644

GGGGAGGCTGTGATGGGTTGACAGGTGCGTGACAGTGGGAGCTGCTCTCGGCACAAGCATGTACGGCAAAGGCAA
GAGTAACAGCAGCGCCGTCCTCCGACAGCCAGGCCCGGGAGAAGTTAGCACTCTACGTATATGAATATCTGCT
CCATGTAGGAGCTCAGAAATCAGCTCAAACATTTTTATCAGAGATAAGATGGGAAAAAACATCACATTGGGGGA
ACCACCAGGATTCTTACATTCTTGGTGGTGTGTATTTTGGGATCTCTACTGTGCAGCTCCAGAGAGACGTGAAAC
ATGTGAACACTCAAGTGAAGCAAAAGCCTTCCATGATTACAGTGCTGCAGCAGCTCCCAGTCCAGTGCTAGGAAA
CATTCCCCCAGGAGATGGCATGCCAGTAGGTCCTGTACCACCAGGGTTCTTTACGCCTTTTATGTCACCTCGGTA
CCCTGGAGGTCCAAGGCCCCCATTTGAGGATACCTAATCAGGCACTTGGAGGTGTCCAGGAAGTCAGCCATTACT
CCCCAGTGGAAATGGATCCAACTCGACAACAAGGACATCCAATATGGGTGGGCCAATGCAGAGAATGACTCCTCC
AAGAGGAATGGTGCCCTTAGGACCACAGAACTATGGAGGTGCAATGAGACCCCCACTGAATGCTTTAGGTGGCCC
TGGAATGCCCTGGAATGAACATGGGTCCAGGTGGTGGTAGACCTTGGCCAAACCCAAACAAATGCCAATTCAATACC
ATACTCCTCAGCATCTCCTGGGAATTATGTAGGTCTCCAGGAGGTGGAGGGCCACCAGGAACACCCATCATGCC
TAGTCCAGCAGATTCAACCAACTCTGGTGATAACATGTATACTTTAATGAATGCAGTACCTCCTGGACCTAACAG
ACCTAATTTTCCAATGGGTCTGGGTGAGATGGTCCCATGGGTGGATTAGGAGGAATGGAGTCACATCACATGAA
TGGCTCTTTAGGCTCAGGAGATATGGACAGTATTTCCAAGAATTCTCCCAATAATATGAGCCTGAGTAATCAACC
GGGCACTCCAAGGGATGATGGCGAAATGGGGGGAATTTCTTAAATCCTTTTCAGAGTGAGAGTTACTCCCCTAG
CATGACAATGAGCGTGTGATCCATTACCAAGTCTCCTCATGAAAACCACAGTGAGTCAGCCCTTCACAGAACTAC
TACGGAAGAAAATTATTCATCACAGTGTACAGTTAAACAAAGGAATCTCAGTCACACCAAACCAACCTTTTTATT
TCCTGCTCTCTCCCCTCTTTTGTGAAGAAAGCGGGTCCAAATGTGATTCAAACAACGTACGGAGTGGCATATTA
GAATTGCCCTAAACTGAACTGCAATAAATTATGTGTGTATGTATATGTGTGGGAAAGAGAATGTACTGTATATGT
GTATGTTATACAGACATATACATACATACATTGACCCACAGGACATTGTAAAATATTATCACATGACATCTTA
AGTAGAAATAAGTAGGGACTTTTATTCATCCTTTTTTTCAGTTCATTTTAATTATTACAAGTTGCTCCTGC
CCCCTCCCTGAACTATTTTGTGCTGTGTATATCACTGCTTTATATAAGTTATTTTTTAAGGTGAACTCAGATGTT
ATGGTTTTGTAAATGCTCTGCAATCATGGATAGGAATAAAATCGCTTATTTGAGAGCTTTC

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FIGURE 1645

MYGKGKSNSSAVPSDSQAREKLALYVYEYLLHVGAQKSAQTFLSEIRWEKNITLGEPPGFLHSWWCVFWDLYCAA
PERRETCEHSSEAKAFHDYSAAAAAPSPVLGNIPPGDGMPVGPVPPGFFQPFMSPRYPGGPRPPLRIPNQUALGGVP
GSQPLLPSGMDPTRQQGHFNMGGPMQRMTPPRGMVPLGPNYGGAMRPLNALGGPGMPGMNMGPGGGRFPWPNPT
NANSIPYSSASPGNYVGPPGGGGPPGTPIMPSPADSTNSGDNMYTLMNAVPPGPNRPNFPMGPGSDGPMGGLGGM
ESHHMNGSLGSGDMDSISKNSPNNMSLSNQPGTPRDDGEMGGNFLNPFQSESYSPSMTMSV

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FIGURE 1646A

GAATTCCTCCAGCTCTCTGCTCGCTCTGCTCGCAGTCACAGACACTTGAGCACACGCGTACACCCAGACATCTTCGG
GCTGCTATTGGATTGACTTTGAAGGTTCTGTGTGGGTCGCCGTGGCTGCATGTTTGAATCAGGTGGAGAAGCACT
TCAACGCTGGACGAAGTAAAGATTATTGTTGTTATTTTTTTTTTCTCTCTCTCTCTCTCTTAAAGAAAGGAAAATA
TCCCAAGGACTAATCTGATCGGGTCTTCCTTCATCAGGAACGAATGCAGGAATTGGGAACAGCTGTGCAAGT
GCTGAAGAAGGAGATTTGTTTGGAGGAAACAGGAAAGAGAAAGAAAAGGAAGGAAAAAATACATAATTTTCAGGGA
CGAGAGAGAGAAGAAAAACGGGGACTATGCGGGAGAAAAAGATTTCAGATTACGAGGATTATGGATGAACGTAACA
GACAGGTGACATTTACAAAGAGGAAATTTGGGTGATGAAGAAGGCTTATGAGCTGAGCGTGTGTGACTGTG
AGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTC
TCAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGGAGACGTTGAGAAAAGAAGG
GCCTTAATGGCTGTGACAGCCAGACCCCGATGCGGACGATTCCGTAGGTCACAGCCCTGAGTCTGAGGACAAGT
ACAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAGATTGTGTGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCCACTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTGAGCTCACTGGGAAACC
CCAACCTATTGCCACTGGCTCACCCTTCTCTGCAGAGGAATAGTATGTCTCCTGGTGTAACACATCGACCTCCAA
GTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGCTCGGTGCAGGCACCAAGTGCAGGGAACGGGTATG
GCAATCCCCGAACTCACCAGGTCTGCTGGTCTCACCTGGTAACTGAACAAGAATATGCAAGCAAAATCTCCTC
CCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTATCCACCAGGCAGCAAGAATACGA
TGCCATCAGTGTCTGAGGATGTCGACCTGCTTTTGAATCAAAGGATAAATACTCCAGTCGGCTCAGTCATTGG
CTACCCCACTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAA
CAACATATGGTACCGAGTACTCTCTGAGTAGTGACAGCCTGTCTCTGTCTGGGTTTAACACCGCCAGCGCTC
TTCACCTTGGTTTCAGTAACCTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCAGTCAGTTGG
GAGCTTGCACTAGCACTCATTATCTCAGAGTTCAAATCTCTCCCTGCCTTCTACTCAAAGCCTCAACATCAAGT
CAGAACCTGTTTCTCTCTCCTAGAGACCGTACCACACCCCTTCGAGATACCCACAACACACGCGCCACGAGGCGG
GGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCTGACGCGGAGCGACCGAGAGGATCACCGGAACG
AATTCACCTCCCCATTGGACTCACCAGACCTTCGCCGAGCAAGGGGAAAGTCCCTCAGTCAAGCGCATGCGAC
TTTCTGAAGGATGGGCAACATGATCAGATTATTACTTACTAGTTTTTTTTTTTTTCTTGCAGTGTGTGTGTGTC
TATACCTTAATGGGGAAGGGGGTTCGATATGCATTATATGTGCCGTGTGTGGAAAAAAGTTCAGGTACTCT
GTTTTGTAAGTACTTTTTAAATTGCCTCAGTGATACAGTATAAGATAAACAGAAATGCTGAGATAAGCTTAGC
ACTTGAGTGTACAACAGAACTTGTACAAAATAGATTTTAAAGGCTAACTTCTTTCACTGTTGTGCTCCTTTG
CAAAATGTATGTTACAATAGATAGTGTCTGTCAGGTTCAACGTTATTTACATGTAAATAGACAAAAGGAAAC
ATTTGCCAAAAGCGGCAGATCTTACTGAAAGAGAGAGCAGCTGTTATGCAACATATAGAAAAATGTATAGATGC
TTGGACAGACCCGGTAATGGGTGGCCATTGGTAAATGTTAGGAACACACCAGGTACCTGACATCCCAAGAATGC
TCACAAACCTGCAGGCATATCATTGGCGTATGGCACTCATTAAAAAGGATCAGAGACCATTAAGAGGACCATA
CCTATTAAAAAAATGTGGAGTTGGAGGGCTAACATATTTAATTAATAAATAAATAAATCTGGGTCTGCATCT
CTTATTAAAAAATATAAAAAATATGTACATTACATTTTGCTTATTTTCATATAAAAGGTAAGACAGAGTTTGC
AAAGCATTTGTGGCTTTTTGTAGTTTACTTAAGCCAAAATGTGTTTTTTTCCCTTGATAGCTTCGCTAATATTT
TAAACAGTCCTGTAAAAAACCAAAAGGACTTTTTGTATAGAAAGCACTACCTAAGCCATGAAGAACTCCATGC
TTTGCTAACCAAGATAACTGTTTTCTCTTTGTAGAAGTTTTGTTTTTGAATGTGTATTCTAATTATATAAAAT
ATTAAGAACTTTTTAAAAAATCTGTGAAATTAACATGCTTGTGTATAGCTTTCTAATATATATAATATTATGGT
AATAGCAGAAGTTTTGTTATCTTAATAGCGGGAGGGGGTATATTTGTGCAAGTGCACATTTGAGTAACATTTT
CTTTCTGTTTTCTTTTACTCTGCTTACATTTTATAAGTTTAAAGGTCAGCTGTCAAAGGATAACCTGTGGGGTTA
GAACATATCAGATTTGCAACACCCCTAAATGTTTTAATACATAGCAATCTATTGGGTCAACTGACATCCATTGT
ATATACTAGTTTTCTTTCATGCTATTTTTTATTTTGTGTTTTTGCATTTTTATCAAATGCAGGGCCCCCTTCTGATCT
CACCATTTACCATGTCATCTTGAATTCAGTAAGTGCATATCCTAACCTGCCATATTCTAAATCATCTGGTTGG
TTTTAGCCTAGAAATTTGATACGCTTTTTAGAAATATGCCAGAATAGAAAAGCTATGTTGGGGACATGTCCTG
CAAAATATGGCCCTAGAAACAAGTGATATGGAATTTACTTGGTGAATAAGTTATAAATCCCACAGAAGAAAAATG
TGAAAGACTGGGTGCTAGACAAGAAGGAAGCAGGTAAAGGGATAGTTGCTTTGTATCCGTTTTTAATTATTTTA
ACTGACCCCTTGACAATCTTGTGAGCAATATAGGACTGTTGAACAATCCCGGTGTGTCAGGACCCCAATGTAC
TTCTGCATAAAGCATGTATGTCATCTATTTTTCTTCAATAAAGAGATTTAATAGCCATTTCAAGAAATCCATA

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FIGURE 1646B

AAGAACCTCTCTATGTCCTTTTTTAAATTTAAAAAATGACTCTTGTCTAATATTCGTCTATAAGGGATTAATT
TTCAGACCCCTTTAATAAGTGAGTGCCATAAGAAAGTCAATATATATTGTTTAAAAGATATTTTCAGTCTAGGAAAG
ATTTTCCTTCTCTTGGAAATGTGAAGATCTGTCGATTCATCTCCAATCATATGCATTGACATACACAGCAAAGAAG
ATATAGGCAGTAATATCAACACTGCTATATCATGTGTAGGACATTTCTTATCCATTTTTCTCTTTTACTTGCTAT
AGTTGCTATGTGTTTCTCATTTGTAAGGCTGCCGCTGGGTGGCAGAAGCCAAGAGACCTTATTAAGGCTAT
ATTTTCTTAACTTGATCTGAAATCCACAATTAGACCACAATGCACCTTTGGTTGTATCCATAAAGGATGCTAGC
CTGCCTTGTAATAATGTTTTATATATT

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FIGURE 1647

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSTNKLQYASTDMDKVLLKYTEYNEP
HESRTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESSEDKYRKINEDIDLMISRQRLCAVPPPNFEMPVSIPVS
SHNSLVYSNPVSSLGNPNLLPLAHPQLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSAGNGYGNPRNSPGL
LVSPGNLKNMQAKSPPPMNLGMNNRKPDLRVLIIPGSKNTMPVSSEDVDLLLNQRINNSQSAQSLATPVVSVAT
PTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLGCFNTASALHLGSVTGWQQQHLHNMPPSALSQLGACTSTHLS
QSSNLSLPSTQSLNIKSEPVSPPRDRTTTPSRYPQHTRHEAGRSPVDSLSSCSSSYDGSREDHRNEFHSPIGLT
RSPDERESPSVKRMRLSEGWAT

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FIGURE 1648

ATGCAGGCCCGACAAGTAATGCTAGCAGTGGCACTTTATAGCCACGGCTGCACAGAAATCAGAACATTTTCTTTA
GATTTTTTGAAGAAGCGCATCTTTCAGATTCACACAAGCAGGATGACGCTGGCTGATGATGTAACCCTGGACGAC
CTGATCATGGCTAAAGATGACCTCTCTGGTGCTGACATCAAGGCAATCTGTACAGAAGCTGGTCTGATGGCCTTA
AGAGAACGTAGAATGAAAGTAACAAATGAAGACTACATTGACTTTTCTAAAATAGAAATCAGGGAAGGTTAA

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FIGURE 1649

MQARQVMLAVALYSHGCTEIRTFSLDFLKKRIFQIHISRMTLADDVTLDDLIMAKDDLSGADIKAICTEAGLMAL
RERRMKVTNEDYIDFSKIEIREG

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FIGURE 1650

TTTCCTCTTTCTCTAAGAGTCTCTCTCTCCCTTTCCCTCTCTCTCCCCCAATCTGTCTTTCTAGCATGTTGCC
TTTTTCAACCACATTTGTGTTTCAGGTGTAGAGAGGAGAGAGAGTGAACAGGGAGCGGGCTTTTGTCTGTGGT
CTCCCTGGACTGAAGAGAGGGGAGAATAGAAGCCCAAGACTAAGATTCTCAAAATGGTTTATTACCCAGAACTCTT
TGTCTGGGTCAGTCAAGAACCATTTCCAAACAAGGACATGGAGGGAAGGCTTCCTAAGGGAAGACTTCCTGTCCC
AAAGGAAGTGAACCGCAAGAAGAACGATGAGACAAACGCTGCCTCCCTGACTCCACTGGGCAGCAGTGAACCTCG
CTCCCCAAGAATCAGTTACCTCCACTTTTTTAAATCGTAACACCTCCATTGTATTACATATGGTGTATGGGTAT
TGATGAGGTCATGGTATCATATATGGGATTTTTTCTGTGTAAATCATCAAGTATAAGAAGAACTATGGGACTC
TGAGCCTTGCTTTAGAGAATTTACAGTGGACAAATAGGTGTCTCAAAACCAGTTTTTAATCATTCTGACTCAAGT
GAAAACGCTCAGAATTTACACTGTGAATCCACGTTTACAACCCTTACAGGTGGGCCTTCAGGCCTGGTTCGCTA
CAACAATGTCTCCACAACCTCAAACCTCCACCGCGCTCACACAACCGGTCCACTCCTGCCTTTTCACTCACACAG
CTCCCGACTGCTTCTTGAGAGGCTGAGAGTCCCCCCCCCACCTTTTTTTTTCATTAGATGTAACAAACCTAG
TAGTTTATGTTTCATCAATTGTCTGTATATCTCTATATTTATCCATGTACTCTTTTGATGTATAGAAGTAGTTG
AAACTCATTGTTTCTTGTTGTTAGTGACCGAGATGTGTCACAGGACCTGAGACACTGATGAATGGTGTATTT
TGGACTTTCAACATGCTCCTTGGCGAGGTAGCTCTGATGGAGTTATTTTTTATTTCCATGTTCTAAGAAGGTGT
GGTACTCTGTTTCCCTGAATGTTGTTCTCTAGACTGGATTGACTTGTTTTCCTTGTTCTTCAGTGTGGCTTCT
TCCTCAGTGTGTAGGTTGAGCGAATGCTACCAGAGTGTGAGAGACCATTGTCTCGTTGGCTGGCGCTCACGGAC
ATGCAGTCACGGTAGCGGGAGCAATCACAAAACGTAAATTTACTTACCAAATCTCTTCCCTTCCGTAGCCTCGCC
TGCCTGACTTAGAGAAAGAAAAGCAATAATTTACAGGCATTTTGAGGTGTCTCTTTGGGTCTTTCTGTTTGAA
AGGATATTTGTCGAAAAAAGAGCAAAACCGTTTTAAATAAACTCCCCCTGGAAAAAAACCAAAACACTGGCAT
CTGAGTAGGAATATGAAAATGACACCTTTTCCAAATATTAAATTGGAAAAACAAGGTCTACAAAATCATGATACTT
TTTTAAAGGCAGAGCATTCTTTTTTCGGCAATTTTGATAAGCAAGGTGTAGATTACATTTTGTCTTGTCTC
CAACGAAATGGATAAAACAAAATAAATTACCATCTACTCATGGAATGTTGTGTGTAGCCAGTCTGAAAGCCCA
CCTTAATTTTTATATACTGCTTTAGCTCTTCTTTTGACAGGGCAGGCCTGTCTGAACTGTTTCGCTTCTGA
CTGTTAAACACCGATGACGCATGCACTGCACCTTCTCGTTTTCTTCTTGCTCCCCATTGGCCTGAGTTCTTGT
GCATTACTCCTCTCCCTCCTTCGTTAGAATAGGTATATCAGCTGTGTAAATAGAGCAAGAAAACAGTATTCTGCA
TCTGTGGCATTATGTAGAGTTGCAGTTGTGTACTGCTGAAAATGCAGGCTTTGTAAACAGTGTGATCTTTACTG
ATGCACTCATGACAAGTACCAATGTATTTTAGCTATTTTAGTAGTATTTGTTCAATAAATACGCAAGCTGTAAG
GTAACGTCTG

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FIGURE 1651

MVYYPELFVWVSQEPFPNKDMEGRLPKGRLPVPKEVNRKKNDETNAASLTPLGSSELRSPRISYLFHF

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FIGURE 1652

TTTTGGCTCTCTGACCAGCACCATGGCAGTTGGCAAGAACAAGTGCCTTACGAAAGGCGGCAAAAAGGGAGCCAA
GAAGAAAGTGGTTGATCAATTTTCTAAGAAAGATTGGTATGATGTGAAAGCATCTGCTATGTTCAGTATAAGAAA
TATTGGAAAGACGCTCGTCACCAGGACCCAAGGAACCAAAATTGCATCTGATGGTCTCAAGGGTCGTGTGTTTGA
AGTGAGTCTTGCTGATTTGCAGAATGATGAAGTTGCATTTAGAAAATTCAAGCTGATTACTGAAGATGTTTCAGGG
CAAAAAGTGCCTGAGCAACTTCCATGGCATGGATCTTACCCGTGATAAAATGTGTTCCATGGTCAAAAAATGGCA
GACAATGATTGAAGCTCATGTTGATGTCAGGACTACCGATGGTTACTTGCTTCATCTGTTCTGTGTTGGTTTTAC
TAAAAAACGCAACAATCAGATACGGAAGACCTCTTATGCTCAGCACCAACAGGTCCGCCAAATCCGGAAGAAGAT
GATGGAAATCATGACCCAGAGGTGCAGACAAATGACTTGAAAGACCCAGAGGTGCAGACAAATTACAGTGGTCA
ATAAATTGATTCCAGACAGCATTGGAAAAGACATAGAAAAGGCTTGCCAACCTATTTATCCTCTCCATGATGTCT
TCGTTAGAAAAGTAAAAATGCTGAAGAAGCCCAAGTTTGAATTGGGAAAGCTCATGGAGCTTCATGGTGAAGGCA
GTAGTTCTGGAAGAGCCACTGGGGATGAGACAAGTGCTAAAGTTGAACGAGCTGATGGATATGAACCACCAAGTCC
AAGAATCTGTTTAAAGTTCAGACTTCAAATAGTGGCAAATAAAAAGTGCTATTTG

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FIGURE 1653

MAVGKNKCLTKGGKKGAKKKVVDQFSKKDWYDVKASAMFSIRNIGKTLVTRTQGTIASDGLKGRVFEVSLADLQ
NDEVAFRKFKLITEDVQGKNCLSNFHGMDLTRDKMCSMVKKWQTMIEAHVDVRTTDGYLLHLFCVGF TKKRNNQI
RKTSYAQQHQQVRQIRKKMMEIMTPEVQTNDLKDPEVQTNYSQ

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FIGURE 1654

GCAGCCAGAAAGCTCTGGAGCATCAGGGAGACTCCAACCTTAAGGCAACAGCATGGGTGAATAAGGGCTTCCTGTG
GACTGGCAATGAGAGGCCAAACCTGGTGCTTGAGCACTGGCCCCTAAGGCAGGCCTTACAGATCTCTTACACTCG
TGGTGGGAAGAGTTTAGTGTGAAACTGGGGTGGGAATTGGGTGTCCACGTATGTTCCCTTTTGCCTTACTATATGT
TCTGTCAGTTTCTTTCAGGAAAATCTTCATCTTACAACCTGTAGGGCTGGTGTAACTTACGACTTCACTAACTG
TGACTTTGAGAAGATTAAAGCAGCCTATCTCAGTACTATTTCTAAAGACCTGATTACATATATGAGTGGGACCAA
AAGTACCGAGITCAACAACACCGTCTCTTGTAGCAATCGGCCACATTGCCTTACTGAAATCCAGAGCCTAACCTT
CAATCCCACCGCCGGCTGCGCGTCGCTCGCCAAAGAAATGTTGCCATGAAACTAAGGCTGCCTTAGCTATCTG
GTGCCCAGGCTATTCGGAACCTCAGATAAATGCTACTCAGGCAATGAAGAAGAGGAGAAAAAGGAAAGTCACAAC
CAATAAATGTCTGGAACAAGTGTCACAATTACAAGGATTGTGGCGTCGCTTCAATCGACCTTTACTGAAACAACA
GTAAACCATCTTTATTATGGTCATATTCACAGCACCAAAATAAATCATCTTTATTAAGT

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FIGURE 1655

CCGCAGCCCATCGGCATGGCTCAAGAGTTTGTGAACTGCAAAATCCAGCCTGGGAAGGTGGTTGTGTTCAATCAAG
CCCACCTGCCCCGTACTGCAGGAGGGCCCAAGAGATCCTCAGTCAATTGCCCCATCAAACAAGGGCTTCTGGAATTT
GTCGATATCACAGCCACCAACCACACTAACGAGATTCAAGATTATTTGCAACAGCTCACGGGAGCAAGAACGGTG
CCTCGAGTCTTTATTGGTAAAGATTGTATAGGCGGATGCAGTGATCTAGTCTCTTTGCAACAGAGTGGGGAAC TG
CTGACGCGGCTAAAGCAGATTGGAGCTCTGCAGTAACCACAGAACAGGCCCCATGCTGACGTCCCTCCTCAAGAG
CTGGATGGCATTGCAATGATGACAGCACTTCTGGTGGATGAATTTGGGGGCACAAACAGCTTTTTTCCTCTTTT
GGCTCAGTATTTAAAAGTGGACCAACTTGCTCTTAATCACAGGGCCAAGAAGGTTGACGGGCCATCTTGGTTTTTC
TTCTGGATGTGCTCTTTGGTTTTT CAGAAGACTGTGACAAGTTCTGGCCCAGGATTCGCTCACTGACCCCTCAATTG
TCCTCTTTGGCATGCGTTTCTTACTGTTCTCCATGTGTCGGCATGTCTCTACCTCTAAGCCAGTGTTTTTCAACT
ATGTTTATCCAGACTCCTTCTCCACAATGATGAATCCACAGTTGGTTATCTGCTACTGCCCATTAGCTAAATCA
TTTTGCTGCTTGACTTTATGGAGTTTGTATTATGAAATCAGTGGGTATTTTGAATGTGTTCTTTCTAACTACATG
CATCTCTCCACTCAACTCCACCCCATCCCATCCCACCTTGAAAATCACTGCTCTGAACCAGTGTTCTCCACCTTG
TCCTCCACAGATCTCATAGGAAATGTTCAACAATCTGTGAAAGGTCACAGGACCCAATTGGAGAAATCATATGA
AAAGCATAGTTGGTCTTGGTGT CATATGGATCAGAGGCACAAGTGCAGAGGCTGTGGTCATGCGGAACACTCTGT
TATTTAAGATGGCTATCCAGATAATCCTGAACACTGTGTATTTATTTTATTTAGACTACCAGCAAAGATTAAAGC
ATGAAATGTAAACATCTGATAAACTTACAGCCCCCTACACCAAGAGTGTATCTGTGAAAGAGCTCCTACACTT
TGAAAACCTTAAGAATCCCTTATCATGAAGTTGCCTGTTCTAGAATTGTAAGATTGTTAATTTCTTCAATCTCT
AGTGACAACACTTAATTTCTTTTCTAATAAAAAAACCTATAGATGATTCAGTG

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FIGURE 1656

ATCTTGGCGAGGCTGCGGTGTCTGCTGCTACTCTCCGAGCTTCGCAATGCCGCCCAAGGACGACGAGAAGAAGGA
CGCTGGAAAGTCAGCCAAGAAAGACAAAGACCCAGTGAACAAATCCGGGGGCAAGGCCAAAAGAAGAAGTGGTC
CAAAGGCAAAGTTCGGGACAAGCTCAATAACTTAGTCTTGTTTGACAAAGCTACCTATGACAAACTCTGTAAGGA
AGTTCCCAACTATAAACTTATAACCCAGCTGTGGTCTCTGAGAGACTGAAGATTCGAGGCTCCCTGGCCAGGGC
AGCCCTTCAGGCAAAGCACAGAGCTCAAGTAATTTACACCAGAAATACCAAGGGTGGAGATGCTCCAGCTGCTGG
TGAAGATGCATGAATAGGTCCAACCAGCTGTACATTTGGAAAAATAAACTTTATTAAATC

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FIGURE 1657

MPPKDDEKKDAGKSAKKDKDPVNKSGGKAKKKKWSKGVKRDKLNVLFDKATYDKLCKEVPNYKLITPAVVSER
LKIRGSLARAALQAKHRAQVIYTRNTKGGDAPAAGEDA

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FIGURE 1658

GACTGTACAATTTGTTCAAGGAATTTTTGTAGAAAAATACGATCCTACGATAGAAGATTCTTATAGAAAGCAAGT
TGAAGTAGATGCACAACAGTGTATGCTTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGAGGGA
TTTATACATGAAAAATGGACAAGGATTTGCATTAGTTTATTCCATCACAGCACAGTCCACATTTAACGATTTACA
AGACCTGAGAGAACAGATTCTTCGAGTTAAAGACACTGATGATGTTCCAATGATTCTTGTTGGTAATAAGTGTGA
CTTGGAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAAAATCTAGCAAGACAATGGAACAACCTGTGCATTCTT
AGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATCTTTTATGACCTAGTGCGGCAAATTAACAGAAAAAC
TCCAGTGCCTGGGAAGGCTCGCAAAAAGTCATCATGTGCTGCTTTAATATACTAAATGCATTGTAGCTCTGAG
CCAGGTCTGAAGAAGTGTGCCCCAATTCAACAGTGCCAGCATTTCCAACCTTTGTTAAACCTACCAACATCTTAAAT
GGACTTTCCTGTGGTGGIACCCCTTTAAGAGGCGGATGAAAGCTACTATATCAGTTTGCACATTCTAATCACTTTC
CAGTATCACAGAGAGATTTTTACTTTATATAATAGTCCTAGAGTTTGCAGCTGGTAAAACAGAGGCTACATCCA
GTATTACTGCTAAGAGACATTCTTCATCCACCAATGTTGTACATGTATGAAAATGGTGTACTGTATACTTTAACA
TGCCCCATACTTTGTATTGGAGAGTACAATAATGTAAATCCTAAAAGCACCCTATTTTAGCATAATAAAGAAA
GTCCAAAGAGCTCCTATATAGACTACTCCAGATACTTCGCTTCTTTGATACTTGTAGCTTATTGTAATTTTTTT
TAAGAAATTCAGGTCATTATTATTGTACAAAATAAGCGCTTTGATTAAACACAGCTATATAGTTTTTTAATTTT
TAAAAAACCTGTGGAGACGGTGATCTTGTCTTTAAACATGATAGTCCTTTCAGTATAATGTCTTAGATTAAAGA
CGTTGCCTTTAATATCTGTTGGGAAGGAAATGTCCAGACTTTTCAAATCTCTTATTATATGTTTCCTTTTTTTGT
TTACATAGGGAACAATGTTTATAGTCGTGTGTACAGTGGGGGTCTACAACAAGAAGTGTATATTTCAAACAATT
TTTTAATGATTTAACAATTTTTGTAAATCATTTTCAGGCTTCTGCAGCTGTAGATTCTCACTGTGAATCCCTGCT
TTGCTCATGCATAAGTGTATTTGCAATACCAAATATACAGGTTTAGTATTTTGCCTGTAGTGATTGTTTCACA
TGTGTAACGTTTTGGTTGAGATGTTAAATGGTGGACGAGTACTGTGGATGTGAATGTGGGAAGTAATTTAATCA
TATGTAATTGGTCACAAGGCCTAATTTGCAGTAACTATTGCTGTTTTATTAAACAATGCCTGTGTGCTTTGTATG
CATTAAATGTTTGGATGTAAAGATTGTGTGTCTATCCAACAGGGAGCCACAGTATTTAAATTGACCAACCTAATGT
TACAACCTACTTTGAGGTGGCCAAATGTAAACTAAAAGCCTTAATTAAAGTGGTGCAATTTTGT

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FIGURE 1659

MLEILD TAGTEQFTAMRDLYMKNQG FALVYSITAQSTFNDLQDLREQILRVKDTDDVPMILVG NKCDLEDERVV
GKEQGQNLARQWNNCAFLESSAKSKINVNEIFYDLVRQINRKTPVPGKARKKSSCQLL

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FIGURE 1660

GCTCCTTCTAGGATCTCTGCCTGGTTTCGGCCCGCCTGCCTCCACTCCTGCCTCCACCATGTCCATTAGGGGACCC
AGAAGTCCTACAAGGTGTCCACCTCTGGCCCCCGGGCCTTCAGCAGCCACTCCTACACAAGTGGGCCCCGGTGCCC
ACATCAGCTCCTCAAGCTTCTCCCAAGTGGGCAGCAGCTGCTTTCGGGGTGGCCTGGGCGGGCGCTGTGGTGGGG
CCAGCGGCATGGGAGGCATCACCGCGGTCACAGTCAACCAGAGCCTGCTGAGCCCCCTTGTCCTGGAGGTGGACC
CCGACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAACAACAAGTTTGCTCCTTCATAG
ACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGG
CCGGGAGCAACATGGACAACATGTTCAAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCTAGG
AGAACTGAAGCTGGAGGCGGAGCTTGGCAACATGTAGGGGCTGGTGGAGGACTTCAAGAACAAGTATGAGGATG
AGATCAATAAGCGTGCAGAGATGGAGAATGAATTTGTCTCATCAAGAAGGATTGTGGATGAAGCTTACATTAAAC
AAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGATGAGATCAACTTCCTCAGGCAGCTGTATGAAGAGGAG
ATCCGGGAGCTGCAGTCTGGATCTCAGACACATCTGTGGTGTCTGTCATGGACAACAGCCGCTCCCTGGACATG
AACAGCGTCATCGCTGAGGTCAAGGCACAGTACGAGGAGATCGCCAACCGCAGCCAGGCCGAGGCTGAGAGCATG
TACCAGATCAAGGATGAGGAGCTGCAGAGTCTGGCTGGGAAGCATGGGGATAACCTGCGGTGCACAAAGACTAAG
ATCTCCGAGATGAACCGGAACATCAGCCGGCTCCAGGCTGAGAATGAGGGCCTCAAAGGCCAGAGGGCTTTCTCTG
GAGGCCGCCATTGCAGATGCCGAGCAGTGTGGAGAGCTGGCCATTAGGATGCTAACGCCAAGTTGTGAGCTGG
AGGCCGCCCTGCAGCGGGCCAAGCAGGACATGGCGTGGCAGCTGCGTGAGTACCAGGAGCTGATGAACGTCAGGC
TGGCCCTGGACATCGAGATCGCCACCTACAAGAAGCTGCTGGAGGGCGAGGAGAGCCGGCTGGAGTCTGGGATGC
AGAACATGAGTATTCATACGAAGACCACCAGCGGCTATGCAAGTGGTCTGAGCTCGGCCTGTGGGGGCCCTCACAA
GCCCCGGCCTCAGCTACGGCCTGGGCGCCAGCTCCTTCAGCCGCACCAGCTACTCCAGGGCCGTGGTTGTGAAGA
TCGAGACACGTGATGGGAAGCTGGTGTCCGAGTCTCTGACGTCTGCCCAAGTGAACAGCTGTGGCAGCCCCCTC
CCAGCCTACCCCTCCTGCGCTGCCCCAGAGCCTGGGAGGGAGGTCACTATGCAGGGTAGCACTGGGAACAGGAGA
CCCACCTGAGGCTCAGCCCTAGGCCTCAGTCCACCGCGGGGGAGTTTACTGCCTGGGGACCCCCCTTTGCCCA
TGCTCCAGCTACAAAACAATTCAGTTGCTTTTTTTTTTTTTTTTGGTCCAAAATAAACCTCAGCTAGCTCTGC

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FIGURE 1661

MRMRSISVQRWRMNLSSSRIVDEAYINKVELESRLLEGLTDEINFLRQLYEEEIRELQSWISDTSVVLSDNSRS
LDMNSVIAEVKAQYEEIANRSQAEAESMYQIKDEELQSLAGKHGDNLRCTKTKISEMNRNISRLQAENEGLKGQR
AFLEAAIADAEQCGELAIKDANAKLSSWRPPCSGPSRTWRGSCVSTRS

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FIGURE 1662

AGTGGGCAGCAGCTGCTTTCGGGGTGGCCTGGGCGGCGGCTGTGGTGGGGCCAGCGGCATGGGAGGCATCACCGC
GGTCACAGTCAACCAGAGCCTGCTGAGCCCCCTTGTCCTGGAGGTGGACCCCGACATCCAGGCTGTGTGCACCCCA
GGAGAAGGAGCAGATCAAGACCCCTCAACAACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCA
GAACAAGATGCTGGAGACCAAGTGGAGCCTCCTGCAGCAGCAGAAGACGGCCGGGAGCAACATGGACAACATGTT
CAAGAGCTACATCAACAACCTTAGGCGGCAGCTGGAGACTCTGGGCTAGGAGAACTGAAGCTGGAGGCGGAGCT
TGGCAACATGTAGGGGCTGGTGGCTGGGATGCAGAACATGAGTATTCATACGAAGACCACCAGCGGCTATGCAAG
TGGTCTGAGCTCGGCCTGTGGGGGCCTCACAAGCCCCGGCCTCAGCTACGGCCTGGGCGCCAGCTCCTTCAGCCG
CACCAGCTACTCCAGGGCCGTGGTTGTGAAGATCGAGACACGTGATGGGAAGCTGGTGTCCGAGTCCTCTGACGT
CCTGCCCAAGTGAACAGCTG

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FIGURE 1663

CTGGGCGGCGGCTGTGGTGGGGCCAGCGGCATGGGAGGCATCACCGCGGTCACAGTCAACCAGAGCCTGCTGAGC
CCCCTTGTCCTGGAGGTGGACCCCGACATCCAGGCTGTGTGCACCCAGGAGAAGGAGCAGATCAAGACCCTCAAC
AACAAGTTTGCCTCCTTCATAGACAAGGTACGGTTCCTGGAGCAGCAGAACAAGATGCTGGAGACCAAGTGGAGC
CTCCTGCAGCAGCAGAAGACGGCCGGGAGCAACATGGACAACATGTTCAAGAGCTACATCAACAACCTTAGGCGG
CAGCTGGAGACTCTGGGCTAGGAGAACTGAAGCTGGAGGCGGAGCTTGGCAACATGTAGGGGCTGGTGGAGGAC
TTCAAGAACAAGTATGAGGATGAGATCAATAAGCGTGCAGAGATGGAGAATGAATTTGTCCTCATCAAGAAGGAT
TGTGGATGAAGCTTACATTAAACAAGGTAGAGCTGGAGTCTCGCCTGGAAGGGCTGACTGATGAGATCAACTTCCT
CAGGCAGCTGTATGAAGAGGAGATCCGGGAGCTGCAGTCTGGATCTCAGACACATCATCGCTGAGGTCAAGGCA
CAGTACGAGGAGATCGCCAACCGCAGCCAGGCCGAGGCTGAGAGCATGTACCAGATCAAGGATGAGGAGCTGCAG
AGTCTGGCTGGGAAGCATGGGGAT

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FIGURE 1664

GCGGCCGCGGCCGTGAGCCTGCCCCAACTCGCCCTCAGCCGGCTGGCCGGCGCGGCC**ATG**GAGGTCTACATCCC
GTCCTTTCGCTATGAAGAGAGCGACCTGGAGCGGGGATACACGGTGTTTAAGATAGAAGTGCTAATGAATGGAAG
AAAACATTTTGTGAAAAGAGATACAGCGAATTTTCATGCTTTGCACAAAAAGCTTAAGAAATGTATAAAAACTCC
AGAAATCCCTTCTAAACATGTTAGGAACCTGGGTCCCCAAAGTCTTGGAACAGCGACGACAAGGCTTGGAACATA
CTTACAGGCTGTCATTTTAGAAAAATGAAGAACTTCCCAAAGTGTTCCTTGATTTCCTAAATGTGCGACACTTGCC
CTCTCTACCAAAGGCAGAAAGTTGTGGATCTTTTGATGAAACAGAGTCTGAAGAGTCAAGCAAAGTGTCCACCA
GCCTGTGCTGCTGTTCCCTCAGGGATCCATATGTCCTTGCTGCAGCCAGCGATTTTCCAAATGTGGTTATTGAAGG
AGTCCTCCATGGGATATTTTACCCTCATCTACAGCCAGGT**AG**AAATCCTACATGGCTAAAAGAAGCAGAAGCAA
GTTTCGAAGTCACAGTCAAGGAAATCAATACCTACCAATTTAACCTAAACGCTATGATATATAACAGCTCTAGCT
AGTGGTAAAGTGCACAGTCCCAGCTTAATTCAGGGCAGGGACATTTCATTAGAATGGTGCTCTTAAAAATAGAA
ACTGAACCGGGGGCGGTGGTCAGGCTAAGGCCAAGTGTTTAAAGAGTAGAGTGTAGCTGCCAGCGTAGAAACCCAT
GAAAAGGAGGCCACAGGAGATTCTGGGAGCACTGGGTGTAGCAAAACAAAGCCACTCTCTGCTTCAGTCGCACC
ATTTGCTAATTGAAAATCATATCCTGAATCATACTGAGACTGATCAACTTTGGTAGCTTTTTTGTTCAGATCTTA
TGACACACTACTCTTCTCACCGTGAGATTTTCTCAGCCAGTGATAGTACATTCTGAAATGCTGGCACCAGGAGAC
GGCCACAGACACACTGCTAAATGTGAAGATGGAACTAAACTGGAAATTAAATTAATACTGACAATATTATGGCA
TTTTTAAGATCATGGCATTTTAATTTACATTAGAGTGGAGTTGCATCATACTCAGGGGTAGCTTCCAAGGTCAG
TACATAGGTAAATGGGCTATTAGGATGATCCTTGAAAGCCCTTTAGAAGGTGCCATGTTGGAACCTGTACAT
CACAACAAGTAGCTTTTCTCCTATGTTGGAAGAAAAAGACTGTTTCTTTGTTTGAAGACCAAGTGAAGTTGTTGG
TGTTTGTGTTAGGGGCCATTTTGTGTAAGAAAAAAGCACATAACTTTTAACACTAGAATCAGCCCGCAAGATGCT
TGCCCCGCTAGTGGCAGATGTGAAGTGAAGGAGTGAAGCGCCACCCAGCGGATGGACAGCACCCACCTGGGT
TTACTCAAGGGTGTGCATTCAATTTAGGTGGGATCGCCACAGGATTTTCATGTTATTTTCTTACGGCTTCCTTTT
CACTGACCTCATTGTTGAGTTAATGTAAGTTAAATGTGTCTATGATATAACTCCACTGTACATCATCCTTTGAG
TAGTAAAGGATAAAAGCATATATACTACCTATATGTATGTGCTGTATGTGGGCATTTTCATTGAGATCTAATTAAT
AGCTAGCCTATTTATGGTTATTCGTTTTAGTAAGTTCTGTGGGAGCAAGGTATTTAAATCAAACTAATAACTA
CATCATGGTTTTTGTATTAGGATCTAAATATTCAGGTTTTAAGCCTGCTGCAAACCTTTTAAATATTATGATAGAT
TCTGTACTACATGTGGGAAACAAGCAAGAACTAAATAATCAAATGTTGTCAACCAAAGTAATAGTTGGGTATTG
GAGATTTTTTTAAATGTTTTTATGTTATTAGCTATTTGGAGTTAAATAAAAACAGAACAAGGAAAAAAAAAAAA
AAAAAAAAAAAAA

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FIGURE 1665

MEVYIPSFYEEEDLERGYTVFKIEVLMNGRKHVFVEKRYSEFHALHKKLKKCIKTPEIPSKHVRNWVPKVLEQRR
QGLETYLQAVILENEELPKLFLDFLNVRHLP SLPKAESCGSFDETESEESSKLSHQPVLLFLRDPYVLPASDFP
NVVIEGVLHGIFYPHLQPR

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FIGURE 1666

AGCTCGCGCAGTCGTTTCGGGTGAGCGAAGATGCGGCCGAGAGGGAACCTCCTCCGCTGGGGGACGGGAAGCCCA
CCGACTTTGAGGATCTGGAGGACGGAGAGGACCTGTTACACGACTGTCTCCACCCTAGAGTCAAGTCCATCAT
CTCCAGAACCAGCTAGTCTTCTCTGCAGAAGATATTAGTGCAAACCTCCAATGGCCCAAAACCCACAGAAGTTGTAT
TAGATGATGACAGAGAAGATCTTTTTCAGAAGCCACAGAAGAAGTTTCTTTGGACAGCCCTGAAAGGGAAACCTA
TCCTATCCTCGGAACCTTCTCTGCAGTCACACCTGTCACTCCTACTACACTCATTGCTCCTAGAATTGAATCAA
AGAGTATGTCGTCTCCCGTGATCTTTGATAGATCCAGGGAAGAGATTGAAGAAGAAGCAAATGGAGACATTTTTG
ACATAGAAATTGGTGTATCAGATCCAGAAAAAGTTGGTGTATGGCATGAATGCCTATATGGCATATAGAGTAACAA
CAAAGACATCTCTTTCCATGTTTCAGTAAGAGTGAATTTTCAGTGAAAAGAAGATTCAGCGACTTTCTTGGTTTGC
ACAGCAAATTAGCAAGCAAATATTTACATGTTGGTTATATTGTGCCACCAGCTCCAGAAAAGAGTATAGTAGGGA
TGACCAAGGTCAAAGTGGGTAAAGAAGACTCATCATCCACTGAGTTTGTAGAAAAACGGAGAGCAGCTCTTGA
GGTATCTTCAAAGAACAGTAAACATCCAACCTTTACTACAGGATCCTGATTTAAGGCAGTTCTTGGAAAGTTT
AGCTGCCTAGAGCAGTTAATACACAGGCTCTGAGTGGAGCAGGAATATTGAGGATGGTGAACAAGGCTGCCGACG
CTGTCAACAAAATGACAATCAAGATGAATGAATCGGATGCATGGTTTGAAGAAAAGCAGCAGCAATTTGAGAATC
TGGATCAGCAACTTAGGAACTTCATGTCAAGTGTGAAGCCTTGGTCTGTATAGAAAAGAACTTTAGCCAAACA
CAGCTGCCTTTGCTAAAAGTGTGCCATGTTAGGTAATTCTGAGGATCATACTGCTTTATCTAGAGCTTTGTCTC
AGCTTGACAGAGGTTGAGGAGAAGATAGACCAGTTACATCAAGAACAAGCTTTTGCTGACTTTTATATGTTTTAG
AACTACTTAGTGACTACATTCGTCTTATTGCTGCAGTGAAAGGTGTGTTTGACCATCGAATGAAGTGTGGCAGA
AATGGGAAGATGCTCAAATTACTTTGCTCAAAAAACGTGAAGCTGAAGCAAAAATGATGGTTGCTAACAACCCAG
ATAAAATACAGCAAGCTAAAAATGAAATAAGAGAGTGGGAGGCCGAAAGTGCAACAAGGGGAAAGAGATTTGAAC
AGATATCTAAAACGATTCGAAAAGAAGTGGGAAGATTTGAGAAAGAACGAGTGAAGGATTTTAAACCGTTATCA
TCAAGTACTTAGAATCACTAGTTCAAACACAACAACAGCTGATAAAATACTGGGAAGCATTCTACCTGAAGCCA
AAGCCATTGCCCTAGCAATAAGATTGTTGCCGTTAAGAAGACCTTGGATGTTGTTCCAGTTATGCTGGATTCCACA
GTGAAATCATTAAAACCATCTAAATAAACCACTATATATTTATGAATTACATGTGGTTTTATATACACACACA
CACACACACACACACACACACACTCTGACATTTTATTACAAGCTGCATGTCCTGACCTCTTTGAATTAAG
TGGACTGTGGCATGACATTCGCAATACTTTGCTGAATTGAACACTATTGTGTCTTAAATACTTGCCTAAATAG
TGCCTGCAAGACCAGAAAATTTTACAATATTTTTCTTTACAATATGTTCTGTAGTATGTTTACCCTCTTTATG
AAGTGAATTACCAATGCTTTGAATAATGTTCACTTATACATTCCTGTACAGAAATTACGATTTTGTGATTACAGT
AATAAAATGATATTCCTTGTTG

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FIGURE 1667

MAAEREPPPLGDGKPTDFEDLEDGEDLFTSTVSTLESSPSSPEPASLPAEDISANSNGPKPTEVVLDLDDREDLFA
EATEEVSLDSPEREPILSSEPSPAVTPVTPTTLIAPRIESKSMSPVIFDRSREEIEEEEANGDIFDIEIGVSDPE
KVGDMNAYMAYRVTTKTSLSMFSKSEFSVKRRFSDFLGLHSLASKYLHVGYIVPPAPEKSIVGMTKVKVGKED
SSSTEFVEKRRAALERYLQRTVKHPTLLQDPDLRQFLESSELPRAVNTQALSGAGILRMVNKAADAVNKMTIKMN
ESDAWFEEKQQQFENLDQQLRKLHVSVEALVCHRKELSANTAFAKSAAMLGNSDHTALSRALSQLAEEVEEKID
QLHQEQAFADFYMFSELLSDYIRLIAAVKGVFDHRMKCWQKWEDAQITLLKKREAEAKMMVANKPDKIQQAKNEI
REWEAKVQQGERDFEQISKTIKKEVGRFEKERVKDFKTVIIKYLESLVQTQQQLIKYWEAFLEPEAKAIA

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FIGURE 1668

AGCTCTCTGGACCTTGGAGCAGGCCTGCCGCCTTCATGTCCACTCTCCTCATCAATCAGCCCCAGTATGCGTGGC
TGAAAGAGCTGGGGCTCCGCGAGGAAAACGAGGGCGTGTATAATGGAAGCTGGGGAGGCCGGGGAGAGGTTATTA
CGACCTATTGCCCTGCTAACAACGAGCCAATAGCAAGAGTCCGACAGGCCAGTGTGGCAGACTATGAAGAACTG
TAAAGAAAGCAAGAGAAGCATGGAAAATCTGGGCAGATATTCTGTCTCCAAAACGAGGAGAAAATAGTAAGACAGA
TTGGCGATGCCTTGC GGGAGAAGATCCAAGTACTAGGAAGCTTGGTGTCTTTGGAGATGGGGAAAATCTTAGTGG
AAGGTGTGGGTGAAGTTCAGGAGTATGTGGATATCTGTGACTATGCTGTTGGTTTATCAAGGATGATTGGAGGAC
CTATCTTGCCCTTCTGAAAGATCTGGCCATGCACTGATTGAGCAGTGGAAATCCCGTAGGCCTGGTTGGAATCATCA
CGGCATTCAATTTCCCTGTGGCAGTGTATGGTTGGAACAACGCCATCGCCATGATCTGTGGAAATGTCTGCCCTCT
GGAAAGGAGCTCCAACCACTTCCCTCATTAGTGTGGCTGTACAAAAGATAATAGCCAAGGTTCTGGAGGACAACA
AGCTGCCTGGTGCAATTTGTTCCCTTGACTTGTGGTGGAGCAGATATTGGCACAGCAATGGCCAAAGATGAACGAG
TGAACCTGCTGTCCTTCACTGGGAGCACTCAGGTGGGAAAACAGGTGGGCCTGATGGTGCAGGAGAGGTTTGGGA
GAAGTCTGTTGGAAGTTGGAGGAAACAATGCCATTATTGCCTTTGAAGATGCAGACCTCAGCTTAGTTGTTCCAT
CAGCTCTCTTCGCTGCTGTGGGAACAGCTGGCCAGAGGTGTACCACTGCGAGGCGACTGTTTATACATGAAAGCA
TCCATGATGAGGTTGTAAACAGACTTAAAAAGGCCTATGCACAGATCCGAGTTGGGAACCCATGGGACCCTAATG
TTCTCTATGGGCCACTCCACACCAAGCAGGCAGTGAGCATGTTTCTTGGAGCAGTGGAAGAAGCAAAGAAAGAAAG
GTGGCACAGTGGTCTATGGGGGCAAGGTTATGGATCGCCCTGGAAATTATGTAGAACCGACAATTGTGACAGGTC
TTGGCCACGATGCGTCCATTGCACACACAGAGACTTTTGCTCCGATTCTCTATGTCTTTAAATTCAAGAATGAAG
AAGAGGTCTTTGCATGGAATAATGAAGTAAAACAGGGACTTTCAAGTAGCATCTTTACCAAGATCTGGGCAGAA
TCTTTGCTGGCTTGGACCTAAAGGATCAGACTGTGGCATTGTAAATGTCAACATTCCAACAAGTGGGGCTGAGA
TTGGAGGTGCCTTTGGAGGAGAAAAGCACACTGGTGGTGGCAGGGAGTCTGGCAGTGATGCCTGGAAACAGTACA
TGAGAAGGTCTACTTGTACTATCAACTACAGTAAAGACCTTCTCTGGCCCAAGGAATCAAGTTTCAGTAAAGGT
GTTTTAGATGAACATCCCTTAATTTGAGGTGTTCCAGCAGCTGTTTTTGGAGAAGACAAAGAAAATTAAAGTTTT
CCCTGAATAAATGCATTATTATGACTGTGACAGTACTAATCCCCCTATGACCCCAAGCCCTGATTAAATCAAG
AGATTCCTTTTTTTTAAAAATCAAAATAAAATTGTTACAACATAGCCATAGTTACT

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FIGURE 1669

ACTGGCTGCTCTGAAAAGCCATCTTTGCATTGTTTCCTCGTCCGCCTCCTTGCTCGCGGCACCGCCTCCGCCACGC
GCCTCCTCCGCCGCCGCGGACTCCGGCAGCTTTATCGCCAGAGTCCCTGAACTCTCGCTTTCTTTTAATCGCCT
GCATCGGATCACCGCGTGCCCCACCATGTGAGACGCAGCCGTAGACACCAGCTCCGAAATCACCACCAAGGACT
TACAGGAGAAGAAGGAAGTTGTGGAAGAGGCAGAAAATGGAAGAGACGCCCCTGCTAACGGGAATGCTAATGAGG
AAAATGGGGAGCAGGAGGCTGACAATGAGGTAGATGAAGAAGAGGAAGAAGGTGGGGAGGAAGAGGAGGAGGAAG
AAGGTGATGGTGAGGAAGAGGATGGAGATGAAGATGAGGAAGCTGAGACAGCTACGGGCAAGCGGGCAGCTGAAG
ATGATGAGGATGACACGCGCTCTCCACCACCAACCAACCATGAGAATTTGCAACAGGGGAGGAAAAAGAAG
CAAACTTCCAAGGCCCTGCTTTTTTCTTAAAGTACTTTAAAAGGAAATTTGTTTGATTTTT

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FIGURE 1670

GGGGGAACATGGCGGCTGCGGAGCCGGCGGTCTTGCGCTCCCCAACAGCGGCGCCGGGGGCGCGGGGGCGCCGT
CGGGCACAGTCCCGGTGCTCTTCTGTTTCTCAGTCTTCGCGCGACCCCTCGTCGGTGCCACACGGGGCGGGCTACG
AGCTGCTCATCCAGAAGTTCCTCAGCCTGTACGGCGACCAGATCGACATGCACCGCAAATTCGTGGTGCAGCTGT
TCGCCGAGGAGTGGGGCCAGTACGTGGACTTGCCCAAGGGCTTCGCGGTGAGCGAGCGCTGCAAGGTGCGCCTCG
TGCCGTTGCAGATCCAGCTCACTACCCTGGGAAATCTTACACCTTCAAGCACTGTGTTTTCTGCTGTGATATGC
AGGAAAGGTTTCAGACCAGCCATCAAGTATTTTGGGGATATTATTAGCGTGGGACAGAGATTGTTGCAAGGGGCC
GGATTTTAGGAATTCCTGTTATTGTAACAGAACAATACCCTAAAGGTCTTGGGAGCACGGTTCAAGAAATTGATT
TAACAGGTGTAAACTGGTACTTCCAAAGACCAAGTTTTCAATGGTATTACCAGAAGTAGAAGCGGCATTAGCAG
AGATTCCTCGGAGTCAGGAGTGTGTTATTATTGGAGTAGAACTCATGTGTGCATCCAACAACTGCCCTGGAGC
TAGTTGGCCGAGGAGTCGAGGTTACATTGTTGTGATGCCACCTCATCAAGAAGCATGATGGACAGGATGTTTG
CCCTCGAGCGTCTCGCTCGAACCGGGATCATAGTGACCAGAGTGAGGCTGTTCTGCTTCAGCTGGTAGCTGATA
AGGACCATCCAAATTCAGGAAATTCAGAACTAATTAAGGCGAGTGCTCCAGAGTCGGGTCTGCTTTCCAAAG
TATAGGACATTTGAAGAACTGGTATGCTACTCACTGGTGAAGGACAGTCAGGTGAAGGACTGTAAGCCCACACAA
GCTCTTCTTATCTCTACTAGAAATTAATGTTAAGTCAAAAACGGCTCCTTTTTTGCGCCTCCTAGTGAAACTTA
ACCAGCTAGACCATTGAGTACCAGCATTTAGTTACAAACGTCAAAGGCTTCCGGTGTGCTTACCTTCCTTTTT
TGTTAATGTGCTTTTATTTATTAATAAATAATTACAATGAAGATGCCTGTTTTGTCTCTACTGTGTACTCTGATCG
TATCTTTCCAAAGTGCAGACTCTTGTGAAGTTTCTTAAATTGTTCACTTTAAAGAAAATGACGTACCAACAATG
ATTTGGCTTTTATATTACTGTAAGATGTTATAATGTTAATGTGGATGTAGTGCTTTTACTTTACAGATTGATTGG
AATAAGATTATTGCATATGAATTTACCCACAGGACTCTGAATCATGTTACCCACTCCCCTCACAATGTTGTCCAC
TTAGTGAGTTGCATTGATCTATCCGTACCAAATGATGTTGAATAATTACATATCTTCTTGACTATACTGATTTT
TTATTTTGGTCACTATTACTAAATCTCTGTTAATATTCTCTCTTTTAACTGAAAAGGGATGGGATAGAAGGGTTT
GCAATGCCATATTATTGGTGGAGGGCTGTTTTAACATCTTTGAAGTATGGCTTGCTGAATATCTTTACCAACATC
TTGAATATATATTCTAGTGTCACAAAGATTTAGCAAAAAGATAAAGCTTGGGTGGAATATCATTTTAAATGTTT
ATGTTCTGTTCTATATTTTCTTCACCTACTCTCAAATATTGTAATGCAAAAAGTCTCAGTAATGATTGGTAGT
ATTAATTTTGTGGTCATTGTTTCTCTTCGATAAATTTATTTTCATTAAATACTTGTTAGAGGGTTTTGAAATGTT
TTTCAAATATGTGAAATGTGAACTGCTGTCTTTTATATTAAAGTAATTAAAGAAAA

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FIGURE 1671

GCTTGCCCGTCGGTCGCTAGCTCGCTCGGTGCGCGTCGTCCCGCTCCATGGCGCTCTTCGTGCGGCTGCTGGCTC
TCGCCCTGGCTCTGGCCCTGGGCCCCGCCGCGACCCCTGGCGGGTCCCGCCAAGTCGCCCTACCAGCTGGTGCTGC
AGCACAGCAGGCTCCGGGGCCGCCAGCACGGCCCCAACGTGTGTGCTGTGCAGAAGGTTATTGGCACTAATAGGA
AGTACTTCACCAACTGCAAGCAGTGGTACCAAAGGAAAATCTGTGGCAAATCAACAGTCATCAGCTACGAGTGCT
GTCCTGGATATGAAAAGGTCCCTGGGGAGAAGGGCTGTCCAGCAGCCCTACCACTCTCAAACCTTTACGAGACCC
TGGGAGTCGTTGGATCCACCACCACTCAGCTGTACACGGACCGCACGGAGAAGCTGAGGCCTGAGATGGAGGGGC
CCGGCAGCTTCACCATCTTCGCCCCTAGCAACGAGGCCTGGGCCTCCTTGCCAGCTGAAGTGCTGGACTCCCTGG
TCAGCAATGTCAACATTGAGCTGCTCAATGCCCTCCGCTACCATATGGTGGGCAGGCGAGTCTGACTGATGAGC
TGAAACACGGCATGACCCTCACCTCTATGTACCAGAATTCACCATCCAGATCCACCACTATCCTAATGGGATTG
TAACTGTGAAGTGTGCCCCGCTCCTGAAAGCCGACCACCATGCAACCAACGGGGTGGTGCACCTCATCGATAAGG
TCATCTCCACCATCACCAACAACATCCAGCAGATCATTGAGATCGAGGACACCTTTGAGACCCTTCGGGCTGCTG
TGGCTGCATCAGGGCTCAACACGATGCTTGAAGGTAACGGCCAGTACACGCTTTTGGCCCCGACCAATGAGGCCT
TCGAGAAGATCCCTAGTGAGACTTTGAACCGTATCCTGGGCGACCCAGAAGCCCTGAGAGACCTGCTGAACAACC
ACATCTTGAAGTCAGCTATGTGTGCTGAAGCCATCGTTGCGGGGCTGTCTGTAGAGACCCCTGGAGGGCAGCAGAC
TGGAGGTGGGCTGCAGCGGGGACATGCTCACTATCAACGGGAAGGCGATCATCTCCAATAAAGACATCCTAGCCA
CCAACGGGGTGATCCACTACATTGATGAGCTACTCATCCAGACTCAGCCAAGACACTATTTGAATTGGCTGCAG
AGTCTGATGTGTCCACAGCCATTGACCTTTTCAGACAAGCCGGCCTCGGCAATCATCTCTCTGGAAGTGAGCGGT
TGACCTCCTGGCTCCCCTGAATTCTGTATTCAAAGATGGAACCCCTCCAATTGATGCCATACAAGGAATTTGC
TTCGGAACACATAATTAAAGACCAGCTGGCCTCTAAGTATCTGTACCATGGACAGACCCTGGAACCTCTGGGCG
GCAAAAACTGAGAGTTTTTTGTTATCGTAATAGCCTCTGCATTGAGAACAGCTGCATCGCGGGCCACGACAAGA
GGGGGAGGTACGGGACCCCTGTTACGATGGACCGGGTGTGACCCCCCAATGGGGACTGTCATGGATGTCCTGA
AGGGAGACAATCGCTTTAGCATGCTGGTAGCTGCCATCCAGTCTGCAGGACTGACGGAGACCCTCAACCGGAAG
GAGTCTACACAGTCTTTGCTCCCCACAAATGAAGCCTTCCGAGCCCTGCCACCAAGAGAACGGAGCAGACTCTTG
GAGATGCCAAGGAACTTGCCAACATCCTGAAATACCACATTGGTGTATGAAATCCTGGTTAGCGGAGGCATCGGGG
CCCTGGTGCGGCTAAAGTCTCTCCAAGGTGACAAGCTGGAAGTCAGCTTGAAAAACAATGTGGTGAGTGTCAACA
AGGAGCCTGTTGCCGAGCCTGACATCATGGCCACAAATGGCGTGGTCCATGTCATCACCAATGTTCTGCAGCCTC
CAGCCAACAGACCTCAGGAAAGAGGGGATGAACTTGACAGCTCTGCGCTTGAGATCTTCAAACAAGCATCAGCGT
TTTCAGGGCTTCCCAGAGGTCTGTGCGACTAGCCCTGTCTATCAAAGTTATTAGAGAGGATGAAGCATTAGC
TTGAAGCACTACAGGAGGAATGCACCACGGCAGCTCTCCGCCAATTTCTCTCAGATTTCCACAGAGACTGTTGA
ATGTTTTCAAACCAAGTATCACACTTAAATGTACATGGGCCGCACCATAATGAGATGTGAGCCTTGTGCATGTG
GGGGAGGAGGGAGAGAGATGTACTTTTTAAATCATGTTCCCCCTAAACATGGCTGTTAACCCTGTCATGCAGAA
ACTTGGATGTCACTGCCTGACATTCACTTCCAGAGAGGACCTATCCCAAATGTGGAATTGACTGCCTATGCCAAG
TCCCTGGAAAAGGAGCTTCAGTATTGTGGGGCTCATAAAACATGAATCAAGCAATCCAGCCTCATGGGAAGTCCCT
GGCACAGTTTTTTGTAAAGCCCTTGACAGCTGGAGAAATGGCATCATTATAAGCTATGAGTTGAAATGTTCTGTC
AAATGTGTCTCACATCTACAGTGGCTTGGAGGCTTTTATGGGGCCCTGTCCAGGTAGAAAAGAAATGGTATGTA
GAGCTTAGATTTCCCTATTGTGACAGAGCCATGGTGTGTTTGTAAATAATAAAACCAAGAAACATA

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FIGURE 1672

MALFVRLALALALALGPAATLAGPAKSPYQLVLQHSRLRGRQHGPNVCAVQKVIGTNRKYFTNCKQWYQRKICG
KSTVISYECCPGYEKVPGEKGCPAALPLSNLYETLGVVGSTTTQLYTDRTTEKLREPMEGPGSFTIFAPSNEAWAS
LPAEVLDSLVS NVNIELLNALRYHMGRRVLTDELKHGMILTSMYQNSNIQIHYPNGIVTVNCARLLKADHHAT
NGVVHLIDKVISTITNNIQQIIEIEDTFETLRAAVAASGLNTMLEGNGQYTLLAPTNEAFEKIPSETLNRILGDP
EALRDLNHNHILKSAMCAEAIVAGLSVETLEGTTLLEVGCSDMLTINGKAIISNKDILATNGVIHYIDELLIPDS
AKTLFELAAESDVSTAIDLFRQAGLGNHLSGSERLTLLAPLNSVFKDGTTPPIDAHTRNLLRNHIKDQLASKYLY
HGQTLETLGKKLRVVFYRNSLCIENSCIAAHDKRGRYGTFTMDRVLTTPMGTVMDVLKGDNRFSMLVAAIQSA
GLTETLNREGVYTVFAPTNEAFRALPPRERSRLLGDAKELANILKYHIGDEILVSGGIGALVRLKSLQGDKLEVS
LKNNVSVNKEPVAEPDIMATNGVVHVTNVLQPPANRPQERGDELADSALEIFKQASAFSRASQRSVRLAPVYQ
KLLERMKH

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FIGURE 1673

TCAGAGTCCGGCTCAGGCTCCGGCTGCGGCTCCAGCCCGGATGCCCCATTCCGTGACCCTGCGCGGGCCTTCGC
CCTGGGGCTTCCGCCTGGTGGGCGGCCGGGACTTCAGCGCGCCCTCACCATCTCACGGGTCCATGCTGGCAGCA
AGGCTGCATTGGCTGCCCTGTGCCAGGAGACCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACAC
ACCTGGAGGCACAGAACCGCATCAAGGGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGA
GCTGGCCCAGTGCCCTGATGACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCA
GCCCAACAACCAGCAGGCGGCCCTCAGGCACCGGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCAT
ATGGACAACCCCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCCAGATGAGCACCC
TGCATGTGTCTCCACCCCCAGCGCTGACCCAGCCAGAGGCCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGG
GCTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCAAGCAGTCAGGCTCCTTCC
GCTACTTGCAGGGCATGCTAGAGGCCGGCGAGGGCGGGGATTGGCCCGGGCCTGGCGGGCCCCGGAACCTCAAGC
CCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCCCTGCAGGGGCTGCCCGAGTGCACGCGCTGCGGCCACGGCA
TCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCCGAGTGCTTCATGTGCAGTGA CTGCGGCTGA
ACCTCAAGCAGCGTGTTACTTCTTTCTGGACGAGCGGCTCTACTGTGAGAGCCACGCCAAGGCGCGCTGAAGC
CGCCCGAGGGGTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGTGGAAC TCGTCTGAGCTGGGACCCTGTCTCC
CACGCTGTCTTAAAGGTCCCTGCTCGGCCGGTGTAATATGTTTCAACCCTGTCCCTCTAATAAAGCTCCTCTG
CTCCACCTTGAACCTGTACCTGGCTGCCACCCTCCTGCGCAGGCCATGCATGGCTCCCGAGTACAGTAGTATC
TGCTTAGGTGCCAGGCATGTCCTAGGCTCTGGGTGCAGTAGTGAGCAGGACGGGTACCATGCTGCCCTGAAGGG
CCACAGCCTGGGTGGAAGGCAGACCTGAATCACAACGGGCCAGCTCTAGTAATACGAAGGTGAGGTCTGGGATGC
TGCGTGCGGCGCGACGACAGGAGGTATGACCTGGGTGGGGTCAGGGAAAGTCTTAGCTGAGAACTAAGAGATGAG
GGAGGCACAACTCTGCACGGGGGAACTGTGTGTGCAAAGGTGAGCTGGGGGCGAGAAAGGCCTCTGTGGCCGTC
ATCGGCACTAGCGGTTGGGGGTGGTGGTGGGGTGTGGCAGCCTCAGGAGCGATCGCTCCCCTGGAGAGGGTGA
TTGAGTGTGGAGTACCCGGGGCGCCGCGGGCCGCTGCACTTCTGTTCCAGGTTTTCTGGCATTTTCTGTTC
CAGGTTTCTTCCACCCACGAGCACTTATTCTCTCCGAGACCCCTTTTCTTCCCCTTCTCTCTCCACACAGG
GGGCGCGCTTAAATTTCCAGACAGAGACCAGAAGGAAGTTTAGAAAGAAAAGAACTTGCCAGGGCAGCTTT
GCCCTCCAAGAGGCTCCCTCCTGTCTCTAAGTCAATTCCACCCCTCCTCGAAGTCCCGGCTTCCACCCCTCTCCT
CAGAGTCCCGGCGTTTACCTCGTGGTGTGTTTGCTTGGGCCTTTTCATGCCCCGGCTGCACACATCGTCTGTGAA
TTGTGGCTGTTCACTCCCGAGGATGTGTCCTAGACTCCGGGTGCGGTGGATCTACCCTCTAGTTTACTTGCTCGG
GAGAAGAACTGACTCGTTTTATTTAGTGCCTATTTAGCGAGCCCAGAGTAACGTACATTTGTGCTGTTTTCAAT
TTTGTGCTATCGCAAATCACAAAAAACTGTTATCAATTCATTCATCATCAGCACGAGACCCATTTCTTGTG
CTCCTGCCAGCTCAGGATATTATGTTTCTTTTTTCATTTTGGCAGTCTGTTAAGTAAAATGTCATATGCGTTTG
TTTTAA

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FIGURE 1674

MPHSVILRGPSPWGFRLVGGGRDFSAPLTISR VHAGSKAALAALCPGDLIQAINGESTELMTHLEAQNRIKGCHDH
LTLSVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPSGTGTGPDGRPSLGSPYGQPPRFFVPHNGS
SEATLPAQMSTLHVSPPPSADPARGLP RSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGSFRYLQGMLEAGEGGD
WPGPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFCMCSDCGLNLKQRGYFFLDERL
YCESHAKARVKPPEGYDVVAVYPNAKVELV

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FIGURE 1675

CGAGCCCCCGCCGAACCGAGGCCACCCGGAGCCGTGCCCAGTCCACGCCGGCCGTGCCCGGGCGGCCTTAAGAACC
CGGCAACCTCTGCCTTCTTCCCTCTTCCACTCGGAGTCGCGCTCCGCGCGCCCTCACTGCAGCCCCCTGCGTCGCC
GGGACCCCTCGCGCGCAGCCGCCGAATCGCTCCTGCAGCAGAGCCAAATGCCATCACTCGGATGCGCATGAGAC
CCTGGCTAGAGATGCAGATTAATTCCAACCAAATCCCGGGGCTCATCTGGATTAATAAAGAGGAGATGATCTTCC
AGATCCCATGGAAGCATGCTGCCAAGCATGGCTGGGACATCAACAAGGATGCCTGTTTGTTCGGAGCTGGGCCA
TTCACACAGGCCGATACAAAGCAGGGGAAAAGGAGCCAGATCCCAAGACGTGGAAGGCCAACTTTCGCTGTGCCA
TGAACCTCCCTGCCAGATATCGAGGAGGTGAAAGACCAGAGCAGGAACAAGGGCAGCTCAGCTGTGCGAGTGTACC
GGATGCTTCCACCTCTCACCAAGAACCAGAGAAAAGAAAGAAAGTCGAAGTCCAGCCGAGATGCTAAGAGCAAGG
CCAAGAGGAAGTCATGTGGGGATTCCAGCCCTGATACCTTCTCTGATGGACTCAGCAGCTCCACTCTGCCTGATG
ACCACAGCAGCTACACAGTTCCAGGCTACATGCAGGACTTGGAGGTGGAGCAGGCCCTGACTCCAGCACTGTGCG
CATGTGCTGTCTAGCAGCACTCTCCCCGACTGGCACATCCAGTGGAAAGTTGTGCCGGACAGCACCAGTGATCTGT
ACAACCTTCCAGGTGTCAACCATGCCCCCTCCACCTCTGAAGCTACAACAGATGAGGATGAGGAAGGGAAATTACCTG
AGGACATCATGAAGCTCTTGGAGCAGTCGGAGTGGCAGCCAACAACGTGGATGGGAAGGGGTACCTACTCAATG
AACCTGGAGTCCAGCCCACCTCTGTCTATGGAGACTTTAGCTGTAAGGAGGAGCCAGAAATTGACAGCCCAGGGG
GGGATATTGGGCTGAGTCTACAGCGTGTCTTACAGATCTGAAGAACATGGATGCCACCTGGCTGGACAGCCTGC
TGACCCCAAGTCCGGTTGCCCTCCATCCAGGCCATTCCCTGTGCACCGTAGCAGGGCCCCCTGGGCCCCCTCTTATTC
CTCTAGGCAAGCAGGACCTGGCATCATGGTGGATATGGTGCAGAGAAGCTGGACTTCTGTGGGCCCCCTCAACAGC
CAAGTGTGACCCCACTGCCAAGTGGGGATGGGGCCTCCCTCCTTGGGTCATTGACCTCTCAGGGCCTGGCAGGCC
AGTGTCTGGGTTTTTCTTGTGGTGTAAAGCTGGCCCTGCCTCCTGGGAAGATGAGGTTCTGAGACCACTGTATCA
GGTCAGGGACTTGGACAGGAGTCAGTGTCTGGCTTTTTCTCTGAGCCAGCTGCCTGGAGAGGCTCTCGCTGTC
ACTGGCTGGCTCCTAGGGGAACAGACCAGTGACCCCAAGAAAGCATAACACCAATCCCAGGGCTGGCTCTGCACT
AAGAGAAAATTGCACTAAATGAATCTCGTTCCCAAGAACTACCCCTTTTCAGCTGAGCCCTGGGGAGCTGTTCC
AAAGCCAGTGAATGTGAAGGAAAGTGGGGTCCTTCGGGGCGATGCTCCCTCAGCCTCAGAGGAGCTCTACCCCTG
CTCCCTGCTTTGGCTGAGGGGCTTGGGAAAAAACTTGGCACTTTTTCGTGTGGATCTTGCCACATTTCTGATCA
GAGGTGTACACTAACATTTCCCCCGAGCTCTTGGCCTTTGCATTTATTTATACAGTGCCTTGCTCGGCGCCCAAC
ACCCCTCAAGCCCCAGCAGCCCTCAACAGGCCAGGGAGGGAAGTGTGAGCGCCTTGGTATGACTTAAATTTGG
AAATGTCATCTAACCATTAAGTCATGTGTGAACACATAAGGACGTGTGTAAATATGTACATTTGTCTTTTATAA
AAAGTAAATTGTT

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FIGURE 1676

MPITRMRMPWLEMQINSNQIPGLIWINKEEMIFQIPWKHAACHGWDINKDACLFRSWAIHTGRYKAGEKEPDPK
TWKANFRCAMNSLPDIEEVKDQSRNKGSSAVRVYRMLPPLTKNQKSKSSRDAKSKAKRKSCGDSSPDTFSD
GLSSSTLPDDHSSYTVPGYMQDLEVEQALTPALSPCAVSSTLPDWHIPVEVVPDSTSDLYNFQVSPMPSTSEATT
DEDEEGKLPEDIMKLEQSEWQPTNVDGKGYYLNEPGVQPTSVYGDFSCKEEPEIDSPGGDIGLSLQRVFTDLKN
MDATWLDSLLTPVRLPSIQAIPCAP

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FIGURE 1677

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCGTCGCAGCCCCCGCGTAGCCGCTCCGAG
CCCGCCGCCACATCCTCTGAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTGGCTTAATAAAGCTTGATTGAAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGAAGTGAAGCTGACCTTCGATTTCATCTTCTCACCTAACACTGGGAAAAAAATGCTAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACCTGGGCTGCGACATGGATTTCGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCTGACGCCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAACTGACACTGTCAGCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAT
TTTAACTATTTTGCAGCATAGCTACCTTCAGAAATTTAGTGTATCTTTAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTAAAGTTGATTTCAGCTTTAAGATGTTACCCTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAAGGTCTTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGAAGCGGATAATATGTAGGCACTTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTCCTGAGAATCGAACCTTGGTCCCTAACCTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAACTCACCTGAATGGGACTTTTTTAGACAGATCTTCATGACCTGTTCCACCCAGTTCATCATCATC
TCTTTTACACCAAAGGTCTGCAGGGTGTGGTAACTGTTTCTTTTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTTCAGGACTTATTCCTTCTTGTGTGTGTTTTTTTTGGCCCTTGACCAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGGAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTTGTATTCTCACCCTCAATTGTTTTTTAGCAGTTTAAATGGGTACATTTTAGAGTCTTC
CATTTTGTGGAAATTAGATCCTCCCTTCAAATGCTGTAATTAACAACACTTAAAAAATTTGAATAAAATATTGA
AACCTC

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FIGURE 1678

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTKSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTFDSSFSPNTGKKNAIKTGYKREHINLGCDMDFDIAGPSIRGALVLGYEGWL
AGYQMNFEAKSRVTQSNFAVGKYKTDEFQLHTNVNDGTEFGGSIYQKVNKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLYTQTLKPGIKLTLALLDGKNVNAGGHKLGLGLEFQA

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FIGURE 1679

CTCTTCCTTCGCTAACGCCTCCCGGCTCTCGTCAGCCTCCCGCCGGCCGTCTCCTTAACACCGAACACCATGCCT
TCAATTAAGTTGCAGAGTTCTGATGGAGAGATATTTGAAGTTGATGTGGAAATTGCCAAACAATCTGTGACTATT
AAGACCATGTTGGAAGATTGGGAATGGATGATGAAGGAGATGATGACCCAGTTCCTCTACCAAATGTGAATGCA
GCAATATTAAAAAAGGTCATTTCAGTGGTGCACCCACCACAAGGATGACCCTCCTCCTCCTGAAGATGATGAGAAC
AAAGAAAAGCGAACAGATGATATCCCTGTTTGGGACCAAGAATTCCTGAAAGTTGACCAAGGAACACTTTTTGAA
CTCATTCTGGCTGCAAACTACTTAGACATCAAAGGTTTGCTTGATGTTACATGCAAGACTGTTGCCAATATGATC
AAGGGGAAAACCTCTGAGGAGATTCGCAAGACCTTCAATATCAAAAATGACTTTACTGAAGAGGAGGAAGCCCAG
GTACGCAAAGAGAACCAGTGGTGTGAAGAGAAGTGAAATGTTGTGCCTGACACTGTAACACTGTAAGGAT

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FIGURE 1680

MPSIQLQSFIDGEIFAVDVEIAKQSVTIKTLEDLGMDDEGDDPVPLPNVNAAVLKKVIQWCTHHKDDPPPPEDDE
NKEKQTDDIPVWDQEFLKVAQGTLFELIRAANYLDIKGLLDVTCKTVANMIKGKTPEEIRKTFNIKNDFTEEEEE
QVRKENQWCEEK

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FIGURE 1681A

CGCTGGGATGGCCGCCACAGCTGTAGGTGCTGCTAGTGTTTAGCGCTGGTCTTTGCCGGGCGTTGAGGGCAGCTC
AGCCTCCTTGTGTTGTCCGGTTCGCTGTGCGTGGTACTCAAGGGCACCAAGTATTCGCGGGTCGGCAGCATGGGT
CGGGAGTCACGCCACTATCGAAAACGATCGGCATCCCGGGGTCGCTCTGGAAGTCGGTCTAGAAGTCGCTCACCC
TCAGACAAAAGAAGTAAACGTGGAGATGACAGACGGTCTAGAAGTAGAGATAGAGATAGGAGGAGAGAGAGGTCT
CGTAGCAGGGATAAAAGAAGATCTCGGTCAAGGGACAGGAAGCGTCTGAGACGTTCCAGAAGTAGAGAGAGAGAC
AGAAGCCGAGAGCGAAGAAGATCTCGAAGTAGAGACAGGAGACGCTCAAGGAGTAGAAGCCGGGGCCGGCGATCC
CGATCCTCCAGTCTTGAAATAAAAGCAAGAAAAGTGAAGATAGATCTAGGTCCAAAGAGAAAAGTGTGGTGGG
GAAAGTTCTAAAGAGAAGAAAAAGACAAAGATGACAAGGAGGATGAAAAAGAAAAAGATGCTGGCAACTTTGAC
CAGAATAAGCTGGAAGAAGAAATGAGAAAGCGAAAAGAAAGAGTAGAAAAATGGCGAGAAGAGCAACGTAAAAAG
GCTATGGAACAATAGGAGAACTGAAAAAGGAAATCGAAGAGATGAAACAAGGGAAAAAGTGGAGTTTAGAGGAC
GATGATGATGACGAAGATGATCCTGCAGAAGCTGAAAAGGAGGGAAATGAAATGGAGGGTGAGGAGTTAGATCCA
TTAGATGCTTACATGGAAGAAGTGAAGAGGAAGTAAAAAATTTAACATGAGAAGTGTAAAGGTGGTGGGGGA
AATGAAAAGAAGTCTGGGCCAACGGTCACAAAAGTTGTCACTGTTGTGACAACCAAAAAAGCAGTTGTGGATTCT
GATAAGAAGAAGGTGAGCTGATGGAGAATGACCAGGATGCCATGGAGTATTCTTCAGAGGAGGAAGAAGTTGAT
CTTCAGACAGCCCTTACAGGGTATCAACAAAACAGCGAAAGCTTCTAGAACCAGTTGATCATGAAAAAATTGAG
TATGAGCCATTTAGGAAAACTTCTATGTTGAAGTTCAGAACTAGCAAAAATGTCTCAAGAAGAGGTAAATGTG
TTTCGATTGGAATGGAGGGCATTACAGTTAAAGGAAAAGGTTGCCCAAACCAATTAAATCCTGGGTCCAGTGT
GGAATTTCCATGAAGATCTTAAATTCCTCAAGAAGCATGGCTATGAAAAGCCCACGCCCATCCAAACCCAGCT
ATTCTGCTATAATGTCTGGACGAGATTGATTGGCATTGCCAAAACAGGAAGTGGAAAGACCATTGCTTTTCTG
TTGCCCATGTTTAGACACATCATGGATCAGAGGTCTTAGAGGAAGGAGAGGGGCCAATAGCTGTCATCATGACT
CCAACTCGAGAAGTGGCTTTACAGATTACTAAAGAGTGTAAAGAGTTTCCAAGACTTTGGGACTTAGAGTGGTC
TGTGTTTACGGAGGAACAGGAATCAGTGAGCAGATTGCTGAGCTGAAAAGAGGTGCTGAAATTATTGTTTGACA
CCTGGTCAATGATTGACATGTTAGCCGCTAACAGTGGTTCGGGTCACAAATCTTCGAAGAGTGACATATGTTGT
TTAGATGAAGCAGACAGAATGTTTGACATGGGTTTTGAACCCAGGTCTGCGCATCGTGGATAATGTTTCGTCT
GATCGACAGACGGTTATGTTTTAGCTACTTTCCCGAGAGCTATGGAGGCTTTGGCTCGCAGGATCCTCAGTAAA
CCTATTGAAGTACAAGTTGGAGGCAGGAGTGTGGTTTTGCTCAGATGTGGAGCAACAAGTATTGTGATTGAAGAA
GAAAGAAATCTTGAAGTTACTTGAGCTTCTAGGCCATTATCAAGAGTCAGGATCTGTCTATTATTTGTGGAT
AAGCAGGAACATGCTGATGGTCTTCTTAAGGATTTAATGAGAGCATCTTATCCTTGCAATGCTCTTCATGGAGGC
ATTGATCAATATGACAGAGATAGCATATAAATGACTTTAAGAATGGGACCTGCAAACTTCTTGTGGCTACCTCT
GTTGCTGCCCCAGGTCTAGATGTGAAACATCTGATTCTTGTAGTAAATTATAGCTGCCCAACCATATGAGGAT
TATGTACACAGAGCAGGGCGGACTGGAAGAGCAGGAACAAGGGTTATGCTTATACTTTTATCACAGAGGATCAA
GCTCGCTATGCTGGTGACATAATTAAAGCTCTGAATTGTGAGGGACTGCAGTACCTCCTGATTAGAGAACTG
TGGAGTGATTTCAAAGATCAGCAGAAAGCTGAGGGGAAAAATAATTAAAAAGAGTAGTGGGTTCTCTGGTAAGGGA
TTCAAGTTTATGAAACAGAACAAAGCTTTGGCTAATGAGAGGAAGAAGTTACAAAAAGCAGCTCTTGGTCTACAA
GATTCAGATGATGAGGATGCTGCAGTTGATATTGATGAGCAAATTGAAAGCATGTTTAATTCAAAGAAGAGAGTA
AAGGATATGGCTGCTCCTGGAACATCAAGTGTTCCTGCTCCAAGTGCAGGAAATGCTGAGAAATTAGAAATTGCT
AAGAGATTGGCTCTTAGAATCAATGCCCGAGAAATTTGGGCATCGAGTCTCAGGTAGATGTGATGCAGCAGGCC
ACCAATGCAATTCTTAGGGGTGGCACCATTCTGGCTCCCACTGTTTCTGCAAAAACCATTCAGAAACAACTTGCT
GAAAAGATCAATGCCAAGCTCAATTATGTGCCGTTAGAGAAAACAAGAAGAAGAGAGACAGGATGGTGGACAGAAT
GAATCTTTAAGAGATGAAGAAGAATTAGAGATCAATGACTCCCAAGACTGCTAGGTGGAAGTTACCTCT
AAGGAAGCTCTGACAGAGAACTAGTGAATACTGTAAGCCGCAATTACAATCAGAGGAACCTACTTCCCTCCTGGC
AAAGAACCCAAGGAAGGCGAGCGGAAGATTTACTTGGCAATTGAAAGTGCCAATGAACTGGCTGTGCAGAAAGCA
AAGGCAGAAATCACCAGGCTCATAAAAGAAGAGCTGATCCGGCTGCAAAATTCATACCAACCAACAAATAAAGGA
AGATACAAAGTCTTATAGACATCCGGAAAAAGATTTTTACCTGTGCTGGTCTATGATGTATGTGGCAGTTGCTG
TCTGCAGTTTACAATGTATTGTAAATGAAGATTTTTTAAATCTATCTTGCTGATTTTTTTTTAAATATAAGAAAC
TGGTACTTGGTAAAGAAATCTGTCCGTAAGTACCCCAATCAGTCAAACTATATTTAAAGCCAGCCTGTTTTTC
AGAGTATGATGTCCTTTAATGTAAACTCAAATATCAATATTTTAAATGTCCGATAATATTCTAGAGGTTTAAAA
AATGGAATATTTGAACTTTCTATTGAAGACAATAAAGTACACAAGTCGTTAAGGGGCTATTCACTTTATCCTGT

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FIGURE 1681B

ACTTTCAATGAAATTGTGATCATTTCCTAAGAAAAGGTAAAATTCACATCATATTTTGTGTCCCCACCTTGATG
TTACATGACTCTGGAACAATATGAACTGGATTTAAGAATGTTATAATAGAAGTCTTACAAAATGG

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FIGURE 1682

MGRESRHYRKRSASRGRSGSRSRSPSDKRSKRGDDRRSRSDRDRRRRERSRSRDKRRSRSDRKRLRRSRRE
RDRSRERRRSRSDRRRSRSGRRSRSSSPGNKSKKTENRSRSKEKTDGGESSKEKKDKDDKEDEKEDAGN
FDQNKLEEMRKRKERVEKWREEQKKAMENIGELKKEIEMKQGKKWSLEDDDDDEDDPAEAEKEGEMEGEEL
DPLDAYMEEVKEEVKFNMRSVKGGGGNEKKS GPTVTKVTVVTTKAVVDSDKKKGELMENDQDAMEYSSEEEE
VDLQTALTGYQTKQRKLLPVDHGKIEYEPFRKNFYVEVPELAKMSQEEVNVFRLEMEGITVKGKGCPKPIKSWV
QCGISMKILNSLKKHGYEKPPIQTQAIPAIMSGRDLIGIAKTGSGKTIAFLPMFRHIMDQRSLEEGERPIAVI
MTPTRALALQITKECKKFSKTLGLRVVCVYGGTGISEQIAELKRGAEIIVCTPGRMIDMLAANSGRVTNLRRVTY
VVLDEADRMFDMGFEPQVMRIVDNVRPDRQTVMF SATFPFRAMEALARRILSKPIEVQVGGRSVVCS DVEQQVIVI
EEEKKFLKLELLGHYQESGSV IIFVDKQEHADGLLDLMRASYPMSLHGGIDQYDRDSIINDFKNGTCKLLVA
TSVAARGLDVKHLILVNYSCPNHYEDYVHRAGRTGRAGNKGAYTFITEDQARYAGDI IKALELSGTAVPPDLE
KLWSDFKDQQAEGKIIKKSSGFSGKGFKEDETEQALANERKKLQKAALGLQDSDDEDA AVDIDEQIESMFNSKK
RVKDMAAPGTSSVPAPTAGNAEKLEIAKRLALRINAQKNLGIESQVDVMQATNAILRGGTILAPT VSAKTIAEQ
LAEKINAKLNYVPLEKQEEERQDGGQNESFKRYEELEINDFPQTARWKVTSKEALQRISEYSEAAITIRGT YFP
PGKEPKEGERKIYLAIESANELAVQKAKAEITRLIKEELIRLQNSYQPTNKGRYKVL

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FIGURE 1683A

GCTGCGGCTCCGCTCTCGTCGCAACGAGATCTTTTCGAGATCTTCTCCGCCCCGCTACCGGCGCCTCCTCTGCGG
CCACTGAGCCGGAGCCGGCCTGAGCAGCGCTCTCGGTTGCAGTACCCACTGGAAGGACTTAGGCGCTCGCGTGGA
CACCGCAAGCCCCCTCAGTAGCCTCGGCCAAGAGGCGCTGCTTTCCACTCGCTAGCCCCGCGGGGGTCCGTGTCC
TGCTCTCGGTGGCCGGACCCGGGCCCCGAGCCCGAGCAGTAGCCGGCGCCATGTCGGTGGTGGGCATAGACCTGGGC
TTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAGCGACCGCTGC
ACGCCGGCTTGCATTCTTTTGGTCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGTAATTTCTAAT
GCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGAGGCAGAAAA
TCTAACCTTGCAATGATATTGTGCGAGTTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAGTGTTCTTAAG
CGAAATTTTACCCTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAGTGTTCTTAAG
AAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCTTGTTCTATACTGATGCAGAAAGACGATCAGTGATGGATGCA
ACACAGATTGCTGGTCTTAATTGCTTGCGATTAAATGAATGAAACCACTGCAGTTGCTCTTGCAATGGAATCTAT
AAGCAGGATCTTCTGCCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTCTGCTTATCAA
GTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTGACACGACATTGGGAGGTAGA
AAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAAATTTGGGAAGAAATACAAGCTAGACATTAAGTCCAAA
ATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGCTTCAGATCTC
CCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAATATGAATAGAGGCAAATTTCTGGAGATG
TGCAATGATCTCTTAGCTAGAGTGGAGCCACCACTTCGTAGTGTTTTGGAACAAACCAAGTTAAAGAAAGAGAT
ATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAGAGAAGATCAGCAAATTTTTCGGT
AAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCCTCGAGGCTGTGCTTGCAGTGTGCCATCTTATCG
CCTGCTTTCAAAGTCAGAGAAATTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATGGAATTTCCA
GCTGAAGAAGGGTCAAGTGACTGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGTTCTTACATTT
TATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGATCCTGCTATA
GCTCAGTTTTCAAGTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAGTGAAAGTCAAAGTTCGAGTA
AATGTCCATGGCATTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAATGAGGAGCCA
ATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCATGTTGAAGAGCAA
CAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATCCAAGGATAAA
AAGATGGACCAACCACCCCAAGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAATCGAGAATCAG
CTATTATGGCAGATAGACAGAGAGATGCTCAACTTGTATGATAAGTTGAGGGTAAGATGATCATGCAGGATAAA
CTGGAGAAGGAGCGGAATGATGCTAAGAACGAGTGGAGGAATATGTGTATGAAATGAGAGACAAGCTTAGTGGT
GAATATGAGAAGTTTGTGAGTGAAGATGATCGTAACAGTTTTACTTTGAACTGGAAGATACTGAAAATTTGGTTG
TATGAGGATGGAGAAGACCAGCCAAAGCAAGTTTATGTTGATAAGTTGGCTGAATTAAGGATCTAGGTCAACCT
ATTAAGATACGTTTCCAGGAATCTGAAGAACGACCAAAATTTATTTGAAGAACTAGGAAACAGATCCAACAGTAT
ATGAAAATAATCAGCTCTTTCAAAAACAAGGAGGACCAAGTATGATCATTGGATGCTGCTGACATGACAAAGGTA
GAAAAAAGCACAATGAAGCAATGGAGTGGATGAATAACAAGCTAAATCTGCAGAACAAAGCAGAGTTTGACCATG
GATCCAGTTGTCAAGTCAAAAGAGATTGAAGCTAAAATTAAGGAGCTGACAAGTACTTGTAGCCCTATAATTTCA
AAGCCCAACCCAAAGTGGAACCTCCAAAAGAGGAACAAAAAATGCAGAGCAGAAATGGACCAGTGGATGGACAA
GGAGACAACCCAGGCCCCCGAGGCTGCTGAGCAGGGTACAGACACAGCTGTGCCTTCGGATTACAGACAAGAGCTT
CCTGAAATGGACATTGATGATTTCCAACTTCTGTTTCTATTAAACAGACTATTATAAAGCTTTAAGTTGTCAAC
TTTGTCTATAATATCAACTAGCGCAAGTGAATACTGAAGATTTCTTAGTCAGTTTTTAGGGGATTTTCGGGGAGG
GGAAATAGGTAATGTATGGAGCATTTTCACTTCTAAATAGTTAGATACAGAAATTAAGTGCATTGTATCTTTTTC
ATAATGGTACTATTTAGAAGCCAGTTAGTCTTACTGAGCTTATGCTTCACTCCTTTATGTTTAAACATGTGTCT
ACAAGAATAAGTTTGTGTTTGGAAAGTTGAGCTATAGCTACAGCTTAGCTATCCAGCAGACTTTTCATTATGACT
TACATGGCAGGAGCTCTAATTATGCTTTAAAAATCTGTTGTGGAGATTGCTTTAAATGCTCCCTGCCTGGTGTGG
GGATGGGGTCCCCCTCTTTGTGAGGGCTGGAGCATGGCACGGCATGGATTAACACGGCAGAGGAACAAAGGTGTG
CTCTGAGCTTCTCATATTTACCTTCACCTCACCCTGCTGTTCTCTTCCCTCTCTCCCAATAAAAGGGCTCCCAT
TATAAATGCCATGTACTTCTCTTGGGAAAATAGACCCCTTGCTAGAGTAAGTTGTTAACTGAGGGCTTTAAAC
CTGGAGGCTCTTCTGAAAGTATGTTTATGAATACCCCAAGCATCAAGGTCTAAATAATTTTCAGAAGATTAGAA
TTGGGTAGATATACTGTTGGATATAGCCATGGTAAATTTAACTGAGGAATTAATCCTTGTTAATTTTGGTGTAA

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FIGURE 1683B

AGATTTGTATCCTGGCCTGTTTATTACAGGTGGGAGATGTTCTGTATAATTTTGAGGTATAGCTTGAACCTCTAGA
ACAAGAGTTAAAAGTTCTTTTAGCTCATTACAAATCACTTGTGTGTTAAGTGTAAATATCTGTCATGAACCTGC
CAATTTGTACGTGTTAAGCAGCTGACAGATGATGCAAAAAAACTAAGATACACTGGATTGTACTGGATGAGTCT
GAAATTAGTGTAAAGAAGTGTGGTGCCTGATGTTATAACAACACCTCATTCTTAACTGTGTGGCCAATGTCAGG
TATACCAAAGCATTCTCTGACTGCTTTTTGGGGCAGTGTTGACAGGAGTGAGGCATTTTGAAACTCCAAGGGA
AGCCTGTGTTTGAGGCCAGAGTTGGTACCTGCTTTAAGAACTGTTACAGGGCTTGTGGTAATGTTTGAATCT
TTGTAAAAATTGATATTCTGTATAACAGAGTGCCTCTCTGTTACTTTTGGCCTATGTTGTTAGAAATAAGATGCT
ATCTTG CATAGTTAGAATTAAAGCGTTTGTCATCTCTAGATAACATTGAAAAGTTTGAGTGTACAGGCTCTAAA
GTGCAATGGAGAACAATTGCTTAGGAGGAGGAAGGGGAAAGTATACTTATGTTGGTGTGTAAGCATGCATGGAGG
CCTCGAGGCACCACAACAAGGCCAGGTTCTTAGCACATCCTCTGTTCTCTACCTGTCATGCTTCAAGAGTTCCAG
CTGGCCTGCTGTGAAGCCAGTAGCTATTTAAAAAGTGCTGGCTGCAGGATTAAGCCAACCCTTTACAACTGGCCC
AGACCGTAATGGCCATTTCTTCTAAAAAATAATTT
GGTGTGTGTGTGTGTGTGTGTGGGGAAGGGTGTGGGTGCTGGGATGGGGTGAATTTCAAGTTGAAACACGATGA
TGTGGTCTGCTTGTCTCTGCTTAGACAGGCTTTAAGACCAATTGGATTTTCATGGAGGCCAGGACAGAGAGTGG
TAATTGATGGCTTGTGTACAGACAAGCATTATCCAGGTTGCGTTATCCAACTGATTGTTAAAGCTCCAGGTC
ACGTTCTTACACTAAGAAAAATCATTACGTAAACATGAGACAAGTTTAGGAAAACTAATAAAATAAACCTGTCTT
AAACTTG

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FIGURE 1684

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAKSQVISNAKNTVQGFKRFGRAF
SDPFVEAEKSNLAYDIVQLPTGLTGIVTYMEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVMDATQIAGINCLRLMNETTAVALAYGIYKQDLPALEEKPRNVFVDMGHSAYQSVCAFNRGKLVLAT
AFDTTLGGRKFDEVLVNHFCCEFGKKYKLDIKSKIRALLRLSQECEKLKLLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVFREFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLFPDPAIAQFSVQKVTPQSDGSSSKVKVVRVNVHGIFSVSSASLVEVHKSEENEPMETDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAESEEMETSQAGSKDKKMDQPPQAKKAKVKTSTVDLPIENQLLWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFVSEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERPCLFEELGKQIQQYMKIISFKNKEDQYDHLDAADMTKVEKSTNEAMEWMNNKLN
LQNKQSLTMDPVVKSKEIEAKIKELTSTCSPIIISKPKPKVEPPKEEQKNAEQNGPVDGQGDNPGPQAAEQGTDTA
VPSDSKKLPEMDID

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FIGURE 1685

GACTGTCTACATTAGTAATTCCCAACTTGGGTCCGAAAGTGAACTTTTGCTGAAGCGAAGTAGCTAACCGCTTCC
ATGTGCAAGGCAGGTTCCAGACTTCGGGGTGAGGAGGATTAAGTGAAGGACCCAGGGGAACCGGTGTGCTCACT
GATCCGCCTCCAGGGCCACCGCCATGTCGAGCCGCGGTGGGAAGAAGAAGTCCACCAAGACGTCCAGGTCTGCCA
AAGCAGGAGTCATCTTTCCCGTGGGGCGGATGCTGCGGTACATCAAGAAAGGCCACCCCAAGTACAGGATTGGAG
TGGGGGCACCCGTGTACATGGCCGCCGTCTGGAATACCTGACAGCGGAGATTCTGGAGCTGGCTGGCAATGCAG
CGAGAGACAACAAGAAGGGACGGGTACACCCCGGCACATCCTGCTGGCTGTGGCCAATGATGAAGAGCTGAATC
AGCTGCTAAAAGGAGTCAACATAGCCAGTGGGGGTGTGTTACCCAACATCCACCCGAGTTGCTAGCGAAGAAGC
GGGGATCCAAAGGAAAGTTGGAAGCCATCATCACACCACCCCGAGCCAAAAAGGCCAAGTCTCCATCCCAGAAGA
AGCCTGTATCTAAAAAGCAGGAGGCAAGAAAGGGGCCCGGAAATCCAAGAAGCAGGGTGAAGTCAGTAAGGCAG
CCAGCGCCGACAGCACAAACGAGGGCACACCTGCCGACGGCTTCACAGTCCCTCCACCAAGAGCCTCTTCCTTG
GCCAGAAGCTGAACCTTATTCACAGTGAAATCAGTAATTTAGCCGGCTTTGAGGTGGAGGCCATAATCAATCCTA
CCAATGCTGACATTGACCTTAAAGATGACCTAGGAAACACGCTGGAGAAGAAAGGTGGCAAGGAGTTTGTGGAAG
CTGTCTTGAACTCCGGAAAAAGAACGGGCCCTTGGAAGTAGCTGGAGCTGCTGTGACGCGCAGGCCATGGCCTGC
CTGCCAAGTTTGTGATCCACTGTAATAGTCCAGTTTGGGGTGACAGCAAGTGTGAAGAACTTCTGAAAAAGACAG
TGAAAACTGCTTGGCCCTGGCTGATGATAAGAAGCTGAAATCCATTGCATTTCCATCCATCGGCAGCGGCAGGA
ACGGTTTTCCAAAGCAGACAGCAGCTCAGCTGATTCTGAAGGCCATCTCCAGTTACTTCGTGTCTACAATGTCCT
CTTCCATCAAAACGGTGTACTTCGTGCTTTTGGACAGCGAGAGTATAGGCATCTATGTGCAGGAAATGGCCAAGC
TGGACGCCAACTAGGCTGAGCAATGACAGAACAGCTGCACCATGTACCCACCTTCAGTTTAAAGAAAAAAA
AATCCCTTCACTCCTACTGGGAGGTGGGACCCCTTTCATTTTCAGTTTGTCTCATCTAGGGAAAAAAGGCTTT
GGTTTCCAGTTTAATTGTTTTTGACCTTCTAAAATGTTTTATGTTAGCACTGATAGTTGGCATTACTGTTGTTA
AGCACTGTGTTCCAGACCGTGTCTGACTTAGTGTAACCTAGGAGATTTTATAGTTTTATTTAATGAAACCTGA
TTGACGCACAGCAGTGGGGAGAACAGCGTCTTTTACCTGTCAACCAAGCCAGGAAGCCCCGTTTGTAGCGTGTG
TTGTGGTGCTTTATTGTACATCCTCCAGTGGCGTCTTTTTACTCTAATGTTCTTTTGGTTTCCCCCTCAGAAG
AATCATGAATTTGCAACAGACCTAATTTTTGGTTACTTTTTGTCTTATTGATGGATTGAAAATGAAAGATTAA
TAAGGCAAAGCAGAATCTGTTGTCCTAATTATATTGCAATTTGGAATTTGTGTGAGTTGATTAGTAAATGT
TAAACCGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1686

MSSRGGKKKSTKTSRSAGVIFPVGRMLRYIKKGHPKYRIGVGAPVYMAAVLEYLTAEILELAGNAARDNKKGR
VTPRHILLAVANDEELNQLLKGVTIASGGVLPNIHPPELLAKKRGSKGKLEAIITPPPAKKAKSPSQKKPVSKKAG
GKKGARKSKKQGEVSKAASADSTTEGTPADGFTVLSTKSLFLGQKLNLIHSEISNLAGFEVEAIINPTNADIDLK
DDLGNLTLEKKGGKEFVEAVLELRKKNPLEVAGAAVSAGHGLPAKFVIHCNSPVWGADKCEELLEKTVMKNCLALA
DDKKLKSIAFPSIGSGRNGFPKQTAAQLILKAISSYFVSTMSSSIKTVYFVLFDSSESIGIYVQEMAKLDAN

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FIGURE 1687

GGACGAGGGGGGAGCGGAGGTGGCGGGCGGCGGCTAGCGGTGGCCCTTGTTGTCTTCCAGTCTCCTCGGCTCGC
CCTTTAGCCGGCACCGCTCCCCCTCCCTCCCCCTTCTCTCTTCCCTTCCCTCCCTCCCTTTTCCCTTC
CCCGTCGGTGAGCGGGGGGGTGGCTCCAGCAACGGCTGGGCCCAAGCTGTGTAGAGGCCTTAACCAACGATAAC
GGCGGCGACGGCGAAACCTCGGAGCTCGCAGGGCGGGGGCAAGGCCGGGCCTTGGAGATCGGAGAATTCTCAGTT
GTGTAAGCTGTTTCATCGGCGGCCTCAATGTGCAGACGAGTGAGTCGGGCCTGCGCGGCCACTTTGAGGCCTTGG
GACTCTGACGGACTGCGTGGTGGTGGTGAATCCCCAGACCAAGCGCTCCCGTTGCTTTGGCTTCGTGACCTACTC
CAATGTGGAGGAGGCGGACGCCGCCATGGCCGCCCTCGCCCCATGCCGTGGACGGCAACACTGTGGAGCTGAAGCG
GGCGGTGTCCCGGGAGGATTCCGGCGGGCCCGGTGCCACGCCAAGGTTAAGAAGCTCTTTGTGCGAGGCCTTAA
AGGAGACGTGGCTGAGGGCGACCTGATCGAGCACTTCTCGCAGTTTGGCACCGTGGAAAAGGCCGAGATTATTGC
CGACAAGCAGTCCGGCAAGAAGCGTGGATTCCGGCTTCGTGTATTTCCA⁵GAATCACGACGCGGCAGACAAGGCCGC
GGTGGTCAAGTTCCATCCGATTCAGGGCCATCGCGTGGAGGTGAAGAAAGCAGTCCCCAAGGAGGATATCTACTC
CGGTGGGGGTGGAGGCGGCTCCCGATCCTCCCGGGGCGGCCGAGGCGGCGGGGGCGCGGCGGTGGTCGAGACCA
GAACGGCCTTTCCAAGGGCGGCGGCGGCGGTTACAACAGCTACGGTGGTTACGGCGGCGGCGGAGGCGGCGGCTA
CAATGCCCTACGAGGCGGCGGCGGCGGTTTCGTCTACGGTGGGAGCGACTACGGTAACGGCTTCGGCGGCTTCGG
CAGCTACAGCCAGCATCAGTCCTCCTATGGGCCCATGAAGAGCGGCGGCGGCGGCGGCGGTGGAGGCAGTAGCTG
GGCGGTTCGCAGTAATAGTGGACCTTACAGAGGCGGCTATGGCGGTGGGGGTGGCTATGGAGGCAGCTCCTTCTA
AAAGAAAATTAAAAATGCCGTGGGAGTGGCTATAGGGGTAGCTCTTTCCAACAGCCCAAGTGGGGTCAACTCCTAA
GCCCCACCCCTCACACACACCGCCTTCCCTGTTTGGCCCTTGGGGGAGCCACTTCTAAGGCTGCTTACCCTTGG
GGGTGTTCCCTCTATTTGCCCTGCCACCTCTCTGTCTCTCCCTCTGAAGATGGACTCGGCCCCACATACACATTTT
TGTGTTACAGTCATTGATGGACTCTATTTTTTTATTATTACTTGGACCTTGGTCGTTTTTATACTAGCAAAATGT
CTTGTTTTAATTTGTGTTTTTTGGGGGAGGGAGGGAGTGAACCTTGCTGATTCTGTAGCAAAACCTGGGTGGGG
TTGGGGTGGGGGTAGTTTACTTTGTTGTAAAGACTTGATAACCTGGCTACAGCGTTTCTATGAAATCTACTTG
GATCCCATGCCTGAAATTTGGAAGCATATGTACACAAATCATTTTTACGTTTTATTTTAATAAATCATTTGTGTT
TGACCGTA

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FIGURE 1688

MENSQLCKLFIGGLNVQTSESGLRGHFEAFGLTDCVVVVNPQTKRSRCFGFVTYSNVEEADAAMAASPHAVDGN
TVELKRAVSREDSARPGAHAKVKKLFVGGLKGDVAEGDLIEHFSQFGTVEKAEIIADKQSGKKRGFGFVYFQNHD
AADKAAVVKFHPIQGHRVEVKKAVPKEDIYSGGGGGSRSSRGGRGGRGGRGGGRDQNGLSKGGGGGYNSYGGYGG
GGGGGYNAYGGGGGSSYGGSDYGNGFGGFGSYSQHQSSYGPMKSGGGGGGGSSWGGRSNSGPYRGGYGGGGY
GGSSF

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FIGURE 1689

CCGCAGAACTTGGGGAGCCGCCGCCGCGCCATCCGCCGCCGCGAGCCAGCTTCCGCCGCCGAGGACCGGCCCCCTGCC
CCAGCCTCCGCAGCCGCCGCCGCGTCCACGCCGCCGCCGCGCCAGGGCGAGTCGGGGTCGCCGCTGCACGCTTCT
CAGTGTTCGCCGCCGCCGCGCATGTAACCCGGCCAGGCCCCCGCAACGGTGTCCCTGCAGCTCCAGCCCCGGCT
GCACCCCCCGCCCCGACACCAGCTCTCCAGCCTGCTCGTCCAGGATGCCGCCGCCAAGGCCGAGATGCAGCTG
ATGTCCCCGCTGCAGATCTCTGACCCGTTCCGGATCCTTTCTCACTCGCCACCATGGACAACCTAACCTAAGCTG
GAGGAGATGATGCTGCTGAGCAACGGGGCTCCCCAGTTCTCGGCCGCCGCCGCCGCCAGAGGGCAGCGGCAGC
AACAGCAGCAGCAGCAGCAGCGGGGGCGGTGGAGGCGGGGGCGGCAGCAACAGCAGCAGCAGCAGCAGCACC
TTCAACCCTCAGGCGGACACGGGCGAGCAGCCCTACGAGCACCTGACCGCAGAGTCTTTCTGACATCTCTCTG
AACAACGAGAAGGTGCTGGTGGAGACAGTTACCCAGCCAAACCACTCGACTGCCCCCATCACCTATACTGGC
CGCTTTTCCCTGGAGCCTGCACCCAACAGTGGCAACACCTTGTGGCCCGAGCCCTCTTCAGCTTGGTCAGTGGC
CTAGTGAGCATGACCAACCCACCGCCTCCTCGTCTCAGCACCATCTCCAGCGCCTCCTCCGCCTCCGCTCC
CAGAGCCCCACCCCTGAGCTGCGCAGTGCCATCCAACGACAGCAGTCCCATTACTCAGCGGCACCCACCTTCCCC
ACGCCGAACACTGACATTTTCCCTGAGCCACAAAGCCAGGCCTTCCCGGGCTCGGCAGGGACAGCGCTCCAGTAC
CCGCCTCCTGCCTACCCCTGCCGCCAAGGGTGGCTTCCAGGTTCCCATGATCCCCGACTACCTGTTTCCACAGCAG
CAGGGGGATCTGGGCCTGGGCACCCGAGACCAGAAGCCCTTCCAGGGCCTGGAGAGCCGACCCAGCAGCCTTCG
CTAACCCCTCTGTCTACTATTAAGGCCTTTGCCACTCAGTCGGGCTCCAGGACCTGAAGGCCCTCAATACCAGC
TACAGTCCCAGCTCATCAAACCCAGCCGATGCGCAAGTATCCCAACCGGCCAGCAAGACGCCCCCCCCACGAA
CGCCCTTACGCTTGCCAGTGGAGTCTGTGATCGCCGCTTCTCCGCTCCGACGAGCTCACCCGCCACATCCGC
ATCCACACAGGCCAGAAGCCCTTCCAGTGCCGCATCTGCATGCGCAACTTCAGCCGCGAGCGACCACTACCCACC
CACATCCGCACCCACACAGGCGAAAAGCCCTTCGCCTGCGACATCTGTGAAGAAAGTTTGGCAGGAGCGATGAA
CGCAAGAGGCATACCAAGATCCACTTGCGGCAGAAAGGACAAGAAAGCAGACAAAAGTGTGTGGCCTCTTCCGCC
ACCTCCTCTCTCTCTTCTTACCCGTCCCCGGTTGTACTCTTACCTCTTACCCGTCCCCGGTTACTACCTCTTATCCATCC
CCGGCCACCACCTCATACCCATCCCCGTGCCCCACCTCCTTCTCCTCTCCCGGCTCCTCGACCTACCCATCCCCCT
GTGCACAGTGGCTTCCCCCTCCCCGTCCGTGGCCACCAGTACTCCTCTGTTCCTCTGCTTCCCCCTGCTTCCCCGCCAGGTC
AGCAGCTTCCCTTCCCTCAGCTGTACCAACTCCTTCAGCGCCTCCACAGGGCTTTCGGACATGACAGCAACCTTT
TCTCCCAGGACAATTGAAATTTGCTAAAGGGGAAAGGGGAAAGAAAGGGAGAAAAAGAAACACAAGAGA
QTAAAGGACAGGAGGAGAGATGGCCATAGGAGAGGAGGGTTCTCTTAGGTCAGATGGAGGTTCTCAGAGCCA
AGTCCCTCCCTCTCTACTGGAGTGGAAAGTCTATTGGCCACAATCCTTTCTGCCCACTTCCCCCTCCCCAATTAC
TATCCCTTTGACTTCAGCTGCCTGAAACAGCCATGTCCAAGTTCTTACCTCTATCCAAAGAACTTGATTGTGCA
TGGATTTTGATAAATCATTTCAGTATCATCTCCATCATATGCCTGACCCCTTGCTCCCTTCAATGCTAGAAAAT
CGAGTTGGCAAAATGGGGTTTGGGCCCTCAGAGCCCTGCCCTGCACCCCTGTACAGTGTCTGTGCCATGGATTT
CGTTTTCTTGGGTACTCTTGATGTGAAGATAATTTGCATATTCTATTGTATTATTTGGAGTTAGGTCCTCACT
TGGGGGAAAAAAAAAAAAAAAAAGCCAAGCAAACCAATGGTGATCCTCTATTTTGTGATGATGCTGTGACAATAAG
TTTGAACTTTTTTTTTTGAACAGCAGTCCCAGTATTCTCAGAGCATGTGTCAGAGTGTGTTCGGTTAACCTTT
TTGTAAATACTGCTTGACCGTACTCTCACATGTGGCAAAATATGGTTTGGTTTTCTTTTTTTTTTTTGAAGTG
TTTTTCTTCGCTCTTTTGGTTTAAAAAGTTTCACGTCTTGGTGCCTTTTGTGTGATGCCCTTGCTGATGGCTT
GACATGTGCAATTGTGAGGACATGCTCACCTCTAGCCTTAAGGGGGGAGGGAGTGATGATTGGGGGAGGCTT
TGSGAGCAAAATAAGGAAGAGGGCTGAGCTGAGCTTCGGTTCTCCAGAATGTAAGAAAAACAAATCTAAACAAA
ATCTGAACCTCTCAAAGTCTATTTTTTTAACTGAAAATGTAAATTTATAAATATATTACAGGAGTTGGAATGTTGT
AGTTACCTACTGAGTAGGCGCGGATTTTTGTATGTTATGAACATGCAGTTTATTATTTGTGGTTCTATTTTACT
TTGTACTGTGTTTGGCTTAAACAAAGTACTGTTTGGCTTATAAACACATTGAATGCGCTTTATTGCCCATGGGA
TATGTGGTGTATATCTTCAAAAAATTAAACGAAAATAAAGTAGCTGCGATTGGG

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FIGURE 1690

MAAAKAEMQLMSPLQISDPFGSFFHSPTMDNYPKLEEMLLSNGAPQFLGAAGAPEGSGSNSSSSSSSGGGGGGGG
GSNSSSSSSSTFNPQADTGEQPYEHLTAESFPDISLNNEKVLVETSYPSQTTRLPPITYTGRFSLEPAPNSGNTLW
PEPLFSLVSGLVSMTNPPASSSSAPSPAASSASASQSPPLSCAVPSNDSSPIYSAAPTFPTPNTDIFPEPQSQAF
PGSAGTALQYPPPAYPAKGGFQVPMIPDYLFPQQGDLGLGTPDQKPFQGLSRTQQPSLTPLSTIKAFATQSG
SQDLKALNTSYQSOLIKPSRMKYPNRPSKTPPHERPYACPVESCDRRFSRDELTRHIRIHTGQKPFQCRICMR
NFSRSDHLTTHIRHTHTGEKPFACDICGRKFARSDEKRHTKIHLRQKDKKADKSVVASSATSSLSSYPSPVATSY
PSPVTTSYSPATTSYSPVPVTSFSSPGSSTYSPVHSGFPSPSVATTYSSVPPAFAQVSSFPSSAVTNSFSAS
TGLSDMTATFSPRTIEIC

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FIGURE 1691

ATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCTAAATTGGCGTTTGTATCAGGATCAGAGGCATC
AATGGTGTGAGCCCAAAGCCCTACAAGGCGCTTCCTCCCGGCCCCAGGCCCATACAAGGCGCTTCCTCCCGGCG
CGGCTGGCTGGCGGCCCCGCGGGCTGGGAGCCCCGCGGAGCACAGCACGCCCTGCCGGAGGTCTTTCAGCGGCCC
CAGCCCCGGGACCTCCAGCCACACGGGCCTCCGAGCCTCGCCGGCCGCTCTCCCTTGA

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FIGURE 1692

MARKAGNFYVPAEPKLAFFVIRIRGINGVSPKPYKALPPGPRPIQGASFPARLAGGPRAGSPPGAQHALPEVFQRP
QPGTSSHTGLRASPAALP

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FIGURE 1693

GGCACGAGGGGAGCGCTTGTGTTGCTGCCTCGTACTCCTCCATTTATCCGCCATGATAAGTGCCAGCCGAGCTGCA
GCAGCCCGTCTCGTGGGCGCCGCGAGCCTCCCGGGGCCCTACGGCCGCCGCCACCAGGATAGCTGGAATGGCCTT
AGTCATGAGGCTTTTAGACTTGTTCAGGCGGGATTATGCATCAGAAGCAATCAAGGGAGCAGTTGTTGGTATT
GATTTGGGTACTACCAACTCCTGCGTGGCAGTTATGGAAGGTAAACGAGCAAAGGTGCTGGAGAATGCCGAAGGT
GCCAGAACCACCCCTTCAGTTGTGGCCTTTACAGCAGATGGTGAGCGACTTGTGGAATGCCGGCCAAGCGACAG
GCTGTCACCAACCCAAACAATACATTTTATGCTACCAAGCGTCTCATTGGCCGGCGATATGATGATCCTGAAGTA
CAGAAAGACATTAAAAATGTTCCCTTTAAAAATTGTCCGTGCCCTCCAATGGTGATGCCCTGGGTTGAGGCTCATGGG
AAATTGTATTCTCCGAGTCAGATTGGAGCATTGTGTTGTATGAAGATGAAAGAGACTGCAGAAAAATTACTTGGGG
CGCACAGCAAAAAATGCTGTGATCACAGTCCCAGCTTATTTCATGACTCGCAGAGACAGGCCACTAAAGATGCT
GGCCAGATATCTGGACTGAATGTGCTTCGGGTGATTAATGAGCCACAGCTGCTGCTCTTGCCTATGGTCTAGAC
AAATCAGAAGACAAAGTCATTGCTGTATATGATTTAGGTGGTGGAACTTTTGATATTCTATCCTGGAAATTCAG
AAAGGAGTATTTGAGGTGAAATCCACAAATGGGGGATACCTTCTTAGGTGGGGAAAGACTTTGACCAGGCCTTGCTA
CGGCACATTGTGAAGGAGTCAAGAGAGAGACAGGGGTGATTGACTAAAGACAACATGGCACTTCAGAGGGTA
CGGGAAGCTGCTGAAAAGGCTAAGTGTGAACCTCTCCTCATCTGTGCAGACTGACATCAATTTGCCCTATCTTACA
ATGGATTCTTCTGGACCCAAGCATTGAAATATGAAGTTGACCCGTGCTCAATTTGAAGGGATTGTCACTGATCTA
ATCAGAAGGACTATCGCTCCATGCCAAAAAGCTATGCAAGATGCAGAAGTCAGCAAGAGTGACATAGGAGAAGTG
ATTCTTGTGGGTGGCATGACTAGGATGCCCAAGGTTACGACAGCTGTACAGGATCTTTTTGGCAGAGCCCCAAGT
AAAGCTGTCAATCCTGATGAGGCTGTGGCCATTGGAGCTGCCATTACAGGGAGGTGTGTTGGCCGGCGATGTACG
GATGTGCTGCTCCTTGATGCTACTCCCCTGTCTCTGGGTATTGAAACTCTAGGAGGTGTCTTTACCAAATTATT
AATAGGAATACCACTATTCCAACCAAGAAGAGCCAGGTATTCTCTACTGCCGCTGATGGTCAAACGCAAGTGAA
ATTAAAGTGTGTGAGGGTGAAGAGAGATGGCTGGAGACAACAACTCCTTGGACAGTTTACTTTGATTGGAATT
CCACCAGCCCCCTCGTGGAGTTCCCTCAGATTGAAGTTACATTTGACATTGATGCCAATGGGATAGTACATGTTTCT
GCTAAAGATAAAGGCACAGGACGTGAGCAGCAGATTGTAATCCAGTCTTCTGGTGGATTAAGCAAAGATGATATT
GAAAAATATGGTTAAAAATGCAGAGAAATATGCTGAAGAAGACCCGGCGAAAGAAGGAACGAGTTGAAGCAGTTAAT
ATGGCTGAAGGAATCATTACGACACAGAAACCAAGATGGAAGAATTCAAGGACCAATTACCTGCTGATGAGTGC
AACAAGCTGAAAGAAGAGATTTCCAAAATGAGGGAGCTCCTGGCTAGAAAAGACAGCGAAACAGGAGAAAAATATT
AGACAGGCAGCATCCTCTCTTCAGCAGGCATCATTGAAGCTGTTTCGAAATGGCATACAAAAAGATGGCATCTGAG
CGAGAAGGCTCTGGAAGTTCTGGCACTGGGGAACAAAAGGAAGATCAAAAGGAGGAAAAACAGTAATAATAGCAG
AAATTTTGAAGCCAGAAGGACAACATATGAAGCTTAGGAGTGAAGAGACTTCCTGAGCAGAAATGGGCGAACTTC
AGTCTTTTTACTGTGTTTTTGCAGTATTCTATATATAATTTCCCTTAATTTGTAAATTTAGTGACCATTAGCTAGT
GATCATTTAATGGACAGTGATTCTAACAGTATAAAGTTTACAATATTCTATGTCCCTAGCCTGTCAATTTTCAGC
TGCATGTAAAAGGAGGTAGGATGAATTGATCATTATAAAGATTTAACTATTTTATGCTGAAGTGACCATATTTTC
AAGGGGTGAAACCATCTCGCACACAGCAATGAAGGTAGTCATCCATAGACTTGAAATGAGACCACATATGGGGAT
GAGATCCTTCTAGTTAGCCTAGTACTGCTGTACTGGCCTGTATGTACATGGGGTCCTTCAACTGAGGCCTTGCAA
GTCAAGCTGGCTGTGCCATGTTTGTAGATGGGGCAGAGGAATCTAGAACAATGGGAACTTAGCTATTTATATTA
GGTACAGCTATTAAACAAGGTAGGAATGAGGCTAGACCTTTAACTTCCCTAAGGCATACCTTTCTAGCTACCTT
CTGCCCTGTGTCTGGCACCTACATCCTTGATGATTGTTCTCTTACCCATTCTGGAATTTTTTTTTTTTTTAAATA
AATACAGAAAGCATCTTGAAAAA

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FIGURE 1694

MISASRAAAARLVGAAASRGPTAARHQDSWNGLSHEAFRLVSRRDYASEAIKGAVVGIDLGTTNSCVAVMEGKRA
KVLNAEGARTTPSVVAFADGERLVGMPAKRQAVTNPNNTFYATKRLIGRRYDDPEVQKDIKNVPFKIVRASNG
DAWVEAHGKLYSPSQIGAFVLMKMKETAENYLGRTAKNAVITVPAYFNDSQRQATKDAGQISGLNVLRVINEPTA
AALAYGLDKSEDKVIAVYDLGGGTFDISILEIQKGVFEVKSTNGDTFLGGEDFDQALLRHIVKEFKRETGVDLTK
DNMALQRVREAAEKAKCELSSSVQTDINLPYLTMDSSGPKHLNMKLTRAQFEGIVTDLIRRTIAPCQKAMQDAEV
SKSDIGEVLVGGMTRMPKVQQTVDLFGRAPSKAVNPDEAVAIGAAIQGGVLAGDVTDLVLLDVTPLSLGIETL
GGVFTKLINRNTTIPTTKKSQVFSTAADGQTQVEIKVCQGEREMAGDNKLLGQFTLIGIPPAPRGVPQIEVIFDID
ANGIVHVSADKGTGREQQIVIQSSGGLSKDDIENMVKNAEKYAEEDRRKKERVEAVNMAEGIIHDTETKMEEFK
DQLPADECNKLKEEISKMRELLARKDSETGENIRQAASSLQQASLKLFE MAYKKMASEREGSGSSGTGEQKEDQK
EEKQ

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FIGURE 1695

GAAATGACTGCTGTCCATGCAGGCAACATAAACTTCAAGTGGGATCCTAAAAGTCTAGAGATCAGGACTCTGGCA
GTTGAGAGACTGTTGGAGCCTCTTGTTACACAGGTTACAACCCTTGTAACACCAATAGTAAAGGGCCCTCTAAT
AAGAAGAGAGGTCGTTCTAAGAAGGCCCATGTTTTGGCTGCATCTGTTGAACAAGCAACTGAGAATTTCTTGGAG
AAGGGGGATAAAATTGCGAAGGAGAGCCAGTTTCTCAAGGAGGAGCTTGTGGCTGCTGTAGAAGATGTTTCGAAAA
CAAGGTGATTTGATGAAGGCTGCTGCAGGAGAGTTCGCAGATGATCCCTGCTCTTCTGTGAAGCGAGGCAACATG
GTTCCGGCAGCTCGAGCTTGCTCTCTGCTGTTACCCGGTTGCTGATTTTGGCTGACATGGCAGATGTCTACAAA
TTACTTGTTCAGCTGAAAGTTGTGGAAGATGGTATCTTGAAGTTGAGGAATGCTGGCAATGAACAAGACTTAGGA
ATCCAGTATAAAGCCCTAAAACCTGAAGTGGATAAGCTGAACATTATGGCAGCCAAAAGACAACAGGAATTGAAA
GATGTTGGCCATCGTGATCAGATGGCTGCAGCTAGAGGAATCCTGCAGAAGAACGTTCCGATCCTCTATACTGCA
TCCCAGGCATGCCTACAGCACCTGATGTGCAGCCCTATAAGGCCAACAGGGACCTGATATACAAGCAGCTGCAG
CAGGCGGTACAGGCATTTCGAATGCAGCCAGGCCACTGCCTCAGACGATGCCTCAGCAGCAGGGTGGAGGA
GGAGGAGAACTGGCATTGCACTCAATAACTTTGACAAACAAATCATTGTGGACCCCTTGAGCTTCAGCGAGGAG
CGCTTTAGGCCCTTCCCTGGAGGAGCGCTGGAAGACCATTAAGTGGGGCTGCCTTGATGGCCGACTCGTCTCTGC
ACGCGTGATGACCGCTGTGAGCGAATTGTGGCAGAGTGTAACTGCTGTCCGCCAGGCCCTGCAGGACCTGCTTTTCG
GAGTACATGGGCAATGCTGGACGTAAAGAAAGAGTGATGCACTCAATTCTGCAATAGATAAAATGACCAAGAAG
ACCAGGGACTTGCCTAGACAGCTCCGCAAGCTGTCTAGGACCAGCTTTTCAGATTCTTTCTGGAACCAATGTT
CCACTTTTGGTATTGATTGAAGCTGCAAGAAATGGAAATGAGAAAGAAGTTAAGGAGTATGCCCAAGTTTTCGT
GAACATGCCAACAAATTGATTGAGGTTGCCAACTTGCCCTGTTCATCTCAAATAATGAAGAAGGTGTAAAGCTT
GTTCGAATGCTGCAAGCCAGTTAGAAGCCCTCTGTCTCAGGTTATTAATGCTGCACTGGCTTTAGCAGCAAAA
CCACAGAGTAAACTGGCCCAAGAGAACATGGATCTTTTTAAAGAAACATGGGAAAAACAAGTCCGTGTTCTCACA
GATGCTGTGATGACATTACTTCCATTGATGACTTCTTGGCTGTCTCAGAGAATCACATTTTGGAGATGTGAAC
AAATGTGTCAATTGCTCTCCAGAGAAGGATGTGGATGGCCTGGACCGCACAGCTGGTGCAATTCGAGGCCGGGCA
GCCCCGGTCAATTCACGTAGTCACTCAGAGATGGACAACATATGAGCCAGGAGTCTACACAGAGAAGGTTCTGGAA
GCCACTAAGCTGCTCTCCAACACAGTCATGCCACGTTTTACTGAGCAAGTAGAAGCAGCCGTGGAAGCCCTCAGC
TCGGACCCTGCCCAGCCCATGGATGAGAATGAGTTTATCGATGCTTCCCGCCTGGTATATGATGGCATCCGGGAC
ATCAGGAAAGCAGTGCTGATGATAAGGACCCTGAGGAGTTGGATGACTCTGACTTTGAGACAGAAGATTTTGAT
GTCAGAAGCAGGACGAGCGTCCAGACAGAAGACGATCAGCTGATAGCTGGCCAGAGTGCCCGGGCGATCATGGCT
CAGCTTCCCCAGGAGCAAAAAGCGAAGATTGCGGAACAGGTGGCCAGCTTCCAGGAAGAAAAGAGCAAGCTGGAT
GCTGAAGTGTCAAATGGGACGACAGTGGCAATGACATCATTGTGCTGGCCAAGCAGATGTGCATGATTATGATG
GAGATGACAGACTTTACCCGAGGTAAAGGACCCTCAAAAATACATCGGATGTATCAGTGCTGCCAAGAAAATT
GCTGAGGCAGGATCCAGGATGGACAAGCTTGCCCGCACCATTGCAGACCATTGCCCCGACTCGGCTTGCAAGCAG
GACCTGTGGCCTACCTGCAACGCATCGCCCTCTACTGCCACCAGCTGAACATCTGCAGCAAGGTCAAGGCCGAG
GTGCAGAACTCTCGCGGGGAGCTTGTTGTCTCTGGGGTGGACAGCGCCATGTCCCTGATCCAGGCAGCCAAGAAC
TTGATGAATGCTGTGGTGCAGACAGTGAAGGCATCCTACGTCGCCCTTACCAATACCAAAAGTCACAGGGTATG
GCTTCCCTCAACCTTCTGTGTGTGTCATGGAAGATGAAGGCACCAGAGAAAAGCCATTGGTGAAGAGAGAGAAA
CAGGATGAGACACAGACCAAGATTAAACGGGCATCTCAGAAGAAGCACGTGAACCCGGTGCAGGCCCTCAGCGAG
TTCAAAGCTATGGACAGCATCTAAGTCTGCCAGGCGCGGCCCCCAACCCCTCGGGGCTCCTGAATATCAGTCA
CTGTTCTGCTCACTCAAATGAATTTGCTAAATACAACACTGATACTAGATTCCACAGGGAAATGGGCAGACTGAACC
AGTCCAGGTGGTGAATTTTCCAAGAACATAGTTTAAGTTGATTAAAAATGCTTTTAGAATGCAGGAGCCTACTTC
TAGCTGTATTTTTGTATGCTTAAATAAAAAATAAAATTCATAACCAAGAGAATCCACATTAGCTTGTTAGTA
ATGCTCTGACCAAGCCGAGATGCCATTCTCTTAGTGATGGCGGCGTTAGGGTTTGAGAGAAGGGAATTTGGCTC
AACTTCAGTTGAGAGGGTGCAGTCCAGACAGCTTGACTGCTTTTAAATGACCAAGATGACCTGTGGTAAGCAAC
CTGGGCATCTTAGGAAGCAGTCCCTGGAGAAGGCATGTTCCAGAAAGGTCTCTGGAGGGACAACTCACTCAGT
AAAACATAATGTATCATGAAGAAAAGTATTCTCTATGACATGAAATGAAAATTTAATGCATTGTTATAATTAC
TAATGTACGCTGCTGCAGGACATTAATAAAGTTGCTTTTTTAGGCTACAGTGTCTCGATGCCATAATCAGAACAC
ACTTTTTTCTCTTTCTCCAGCTTCAAATGCAAATTCATCATTGGGCTCACTTCTAATAACTGCAGTGTTC
CGCCTTGGGCTTGCA

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FIGURE 1696

MTAVHAGNINFKWDPKSLEIRTLAVERLLEPLVTQVTTLVNTNSKGPSNKKRGRSKKAHVLAASVEQATENFLEK
GDKIAKESQFLKEELVAAVEDVRKQGDLMKAAAGEFADDPCCSVKRGNMVRAARALLSAVTRLLILADMADVYKL
LVQLKVVEDGILKLRNAGNEQDLGIQYKALKPEVDKLNIMAARQQELKDVGHRDQMAAARGILQKNVPILYTAS
QACLOHPDVAAAYKANRDLIYQLQQAVTGISNAAQATASDDASQHQQGGGGELAYALNNFDKQIIVDPLSFSEER
FRPSLEERLESIISGAALMADSSCTRDDRRERIVAECNAVRQALQDLLSEYMGNAGRKERSDALNSAIDKMTKKT
RDLRRQLRKAVMDHVSDSFLETNPVLLVLEAAKNGNEKEVKEYAQVFREHANKLIEVANLACSI SNNEEGVKLV
RMSASQLEALCPQVINAALALAAPQSKLAQENMDLFKEQWEKQVRVLTDAVDDITSIDDFLAVSENHILEDVKN
CVIALQEKDVGDLDRTAGAIRGRAARVIHVVTSEMDNYEPGVYTEKVLEATKLLSNTVMPRFTEQVEAAVEALSS
DPAQPMDEFIDASRLVYDGIRDIRKAVLMIRTPEELDDSDFETEDFVRSRTSVQTEDDQLIAGQSARAIMAQ
LPQEQKAKIAEQVASFQEEKSKLDAEVSKWDDSGNDIIVLAKQMCMIMMENTDFTRGKGPLKNTSDVISAAKKIA
EAGSRMDKLGRTIADHCPDSACKQDLLAYLQRIALYCHQLNICSKVKAQVQNLGGELVVSQVDSAMSLIQAAKNL
MNAVVTQVKASYVASTKYQKSQGMASLNLPAVSWKMKAPKPLVKREKQDETQTKIKRASQKKHVPVQALSEF
KAMDSI

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FIGURE 1697

GAATTCGGGCGGGGTTTGTACTATCCTCGGTGCTGTGGTGCAGAGCTAGTTCCTCTCCAGCTCAGCCGCGTAGGT
TTGGACATATTTACTCTTTTCCCCCAGGTTGAATTGACCAAAGCAATGGTGATGGAGAAGCCTAGTCCCCTGCT
GGTCGGGCGGGAATTTGTGAGACAGTATTACACACTGCTGAACCAGGCCCCAGACATGCTGCATAGATTTTATGG
AAAGAACTCTTCTTATGTCCATGGGGGATTGGATTCAAATGGAAAGCCAGCAGATGCAGTCTACGGACAGAAAGA
AATCCACAGGAAAGTGATGTCACAAAACCTTCACCAACTGCCACACCAAGATTGCCCATGTTGATGCTCATGCCAC
GCTAAATGATGGTGTGGTAGTCCAGGTGATGGGGCTTCTCTCTAACAACAACCAGGCTTTGAGGAGATTCATGCA
AACGTTTGTCTTGTCTCCTGAGGGGTCTGTTGCAAATAAATTCTATGTTTACAATGATATCTTCAGATACCAAGA
TGAGGTCTTTGGTGGGTTTGTCACTGAGCCTCAGGAGGAGTCTGAAGAAGAAGTAGAGGAACCTGAAGAAAGACA
GCAAACACCTGAGGTGGTACCTGATGATTCTGGAACCTTCTATGATCAGGCAGTTGTCAGTAATGACATGGAAGA
ACATTTAGAGGAGCCTGTTGCTGAACCAGAGCCTGATCCTGAACCAGAACCAGAACCAAGAACCTGTATCTGAAAT
CCAAGAGGAAAAGCCTGAGCCAGTATTAGAAGAACTGCCCTGAGGATGCTCAGAAGAGTTCTTCTCCAGCACC
TGCAGACATAGCTCAGACAGTACAGGAAGACTTGAGGACATTTTCTTGGGCATCTGTGACCAGTAAGAATCTTCC
ACCCAGTGGAGCTGTTCCAGTTACTGGGATACCACCTCATGTTGTTAAAGTACCAGCTTCACAGCCCCGTCCAGA
GTCTAAGCCTGAATCTCAGATTCCACCACAAAGACCTCAGCGGGATCAAAGAGTGCGAGAACAACGAATAAATAT
TCCTCCCCAAAGGGGACCCAGACCAATCCGTGAGGCTGGTGAGCAAGGTGACATTGAACCCGAAGAATGGTGAG
ACACCCTGACAGTCACCAACTCTTCATTGGCAACCTGCCTCATGAAGTGGACAAATCAGAGCTTAAAGATTTCTT
TCAAAGTTATGGAACGTGGTGGAGTTGCGCATTAAACAGTGGTGGGAAATTACCAATTTTGGTTTTGTGTGTT
TGATGATTCTGAGCCTGTTTCAGAAAGTCCTTAGCAACAGGCCCATCATGTTTCAGAGGTGAGGTCCGTCTGAATGT
CGAAGAGAAGAAGACTCGAGCTGCCAGGGAAGGCGACCGACGAGATAATCGCCTTCGGGGACCTGGAGGCCCTCG
AGGTGGGCTGGGTGGTGGAAATGAGAGGCCCTCCCCGTGGAGGCATGGTGCAGAAACCAGGATTTGGAGTGGGAAG
GGGGCTTGGCCACGGCAGTAATCTTCATGGATCTTCATGCAGCCATACAAACCCTGGTTCCAACAGAATGGTGA
ATTTTCGACAGCCTTTGGTATCTTGGAGTATGACCCAGTCTGTTATAAACTGCTTAAGTTTGTATAATTTTACT
TTTTTTGTGTGTTAATGGTGTGTGCTCCCTCTCCCTCTCTTCCCTTTCCTGACCTTTAGTCTTTCACTTCCAATT
TTGTGGAATGATATTTTAGGAATAACGGACTTTTACCCGAATTC

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FIGURE 1698

MVMEKPSPLLVGREFVRQYYTLLNQAPDMLHRFYGKNSSYVHGGLDSNGKPADAVYGQKEIHRKVMSQNFTNCHT
KIRHVDAHATLNDGVVQVMGLLSNNNQALRRFMQTFVLAPEGSVANKFYVHNDIFRYQDEVFGGFVTEPQEESE
EEVEEPEERQQTPEVVPDDSGTFYDQAVVSNDMEEHLEEPVAEPEPDPEPEPEQEPVSEIQEEKPEPVLEETAPE
DAQKSSSPAPADIAQTVQEDLRTFSWASVTSKNLPPSGAVPVTGIPPHVVKVPASQPRPESKPESQIPPQRPQRD
QRVREQRINIPPQRGPRPIREAGEQGDIEPRRMVRHPDSHQLFIGNLPHEVDKSELKDFFQSYGNVVELRINSGG
KLPNFGFVVFDSEPVQKVLNRPIMFRGEVRLNVEEKKTRAAREGDRRDNRRLRGPGGPRGGLGGGMRGPPrGGM
VQKPGFGVGRLAPRQ

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FIGURE 1699

GAGAGGCGCTGCTGACACCGCCGCCACACCGCCGCCACACCGCGCTGCCTCAGTCATGCCGAAGCACGAGTTCT
CTGTGGACATGACCTGTGGAGGCTGTGCTGAAGCTGTCTCTCGGGTCCTCAATAAGCTTGGAGGAGTTAAGTATG
ACATTGACCTGCCCCAACAAGAAGGTCTGCATTGAATCTGAGCACAGCATGGACACTCTGCTTGCAACCCTGAAGA
AAACAGGAAAGACTGTTTCCTACCTTGGCCTTGAGTAGCAGGGGCCTGGTCCCCACAGCCCACAGGATGGACCAA
AGGGGGCAGGATGCTGATCCTCCCGCTGGCTCCAGACAGACCTGGGACTTGGCAGTCATGCCGGGTGATGGTGT
TCCTGCGGAGACCCTCAGTTGTCCTATTCCTTCCTAGCTTCCCTGCAATAAAATCAAGCTGCTTTTGTGG

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FIGURE 1700

GGAGAGCGCGCTCTGCCTGCCGCTGCCTGCCTGCCACTGAGGGTTCCAGCACCATGAGGGCCTGGATCTTCTT
TCTCCTTTGCCTGGCCGGGAGGGCCTTGGCAGCCCCTCAGCAAGAAGCCCTGCCTGATGAGACAGAGGTGGTGGA
AGAACTGTGGCAGAGGTGACTGAGGTATCTGTGGGAGCTAATCCTGTCCAGGTGGAAGTAGGAGAATTTGATGA
TGGTGCAGAGGAAACCGAAGAGGAGGTGGTGGCGGAAAATCCCTGCCAGAACCACCACTGCAAACACGGCAAGGT
GTGCGAGCTGGATGAGAACAACACCCCCATGTGCGTGTGCCAGGACCCACCAGCTGCCAGCCCCATTGGCGA
GTTTGAGAAGGTGTGCAGCAATGACAACAAGACCTTCGACTCTTCCTGCCACTTCTTGCCACAAAGTGCACCCCT
GGAGGGCACCAGAAGGGCCACAAGCTCCACCTGGACTACATCGGGCCTTGCAAATACATCCCCCTTGCCCTGGA
CTCTGAGCTGACCGAATTCCCCCTGCGCATGCGGGACTGGCTCAAGAACGTCCTGGTCACCCTGTATGAGAGGGA
TGAGGACAACAACCTTCTGACTGAGAAGCAGAAGCTGCGGGTGAAGAAGATCCATGAGAATGAGAAGCGCCTGGA
GGCAGGAGACCACCCCGTGGAGCTGCTGGCCCGGGACTTCGAGAAGAACTATAACATGTACATCTTCCCTGTACA
CTGGCAGTTCGGCCAGCTGGACCAGCACCCCATTTGACGGGTACCTCTCCACACCGAGCTGGCTCCACTGCGTGC
TCCCCTCATCCCCATGGAGCATTGCACCACCCGCTTTTCGAGACCTGTGACCTGGACAATGACAAGTACATCGC
CCTGGATGAGTGGGCGGCTGCTTCGGCATCAAGCAGAAGGATATCGACAAGGATCTTGTGATCTAAATCCACTC
CTTCCACAGTACCGGATTCTCTCTTAACCCCTCCCCTTCGTGTTTCCCCCAATGTTTAAAAATGTTTGGATGGTTT
GTTGTTCTGCCCTGGAGACAAGGTGCTAACATAGATTTAAGTGAATACATTAACGGTGCTAAAAATGAAAATTCTA
ACCCAAGACATGACATTCTTAGCTGTAACCTAACTATTAAGGCCTTTCCACACGCATTAATAGTCCCATTTTTTC
TCTTGCCATTTGTAGCTTTGCCCATTTGTCTTATTGGCACATGGGTGGACACGGATCTGCTGGGCTCTGCCTTAAA
CACACATTGCAGCTTCAACTTTTCTCTTTAGTGTTCTGTTTGAACCTAATACTTACCGAGTCAGACTTTGTGTTT
ATTTCAATTCAGGGTCTTGGCTGCCTGTGGGCTTCCCCAGGTGGCCTGGAGGTGGGCAAAGGGAAGTAACAGACA
CACGATGTTGTCAAGGATGGTTTTGGGACTAGAGGCTCAGTGGTGGGAGAGATCCCTGCAGAACCCACCAACCAG
AACGTGGTTTGCCTGAGGCTGTAACCTGAGAGAAAGATTCTGGGGCTGTGTTATGAAAATATAGACATTCTCACAT
AAGCCCAGTTCATCACCATTTCTCCTTTACCTTTTACGTGCAGTTTCTTTTACATTAGGCTGTTGGTTCAAACCT
TTTGGGAGCACGGACTGTCAGTTCTCTGGGAAGTGGTCAGCGCATCCTGCAGGGCTTCTCCTCCTCTGTCTTTG
GAGAACCAGGGCTCTTCTCAGGGGCTCTAGGGACTGCCAGGCTGTTTCAGCCAGGAAGGCCAAAATCAAGAGTGA
GATGTAGAAAGTTGTAAAAATAGAAAAAGTGGAGTTGGTGAATCGGTTGTTCTTTCTCACATTGGATGATTGTC
ATAAGGTTTTTAGCATGTTCTCCTTTTCTTACCCTCCCCCTTTTTTCTTCTATTAATCAAGAGAACTTCAAAG
TTAATGGGATGGTCGGATCTCACAGGCTGAGAAGCTTCACCTCCAAGCATTTCATGAAAAAGCTGCTTCTTAT
TAATCATACAACTCTCACCATGATGTGAAGAGTTTCACAAATCCTTCAAAATAAAAAGTAATGACTTAGAAACT
G

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FIGURE 1701

GCCACGTGTCCGGCTCGGAGCCACGGCTGTCTCCCGGTCCGCCCCGCGCTGCGGTTGCTGCTGGGCTAACGGG
CTCCGATCCAGCGAGCGCTGCGTCTCGAGTCCCTGCGCCCGTGCCTCCGTCTGCGACCCGAGGCTCCGCTGCG
CGTGGATTCTGCTGCGAACCGGAGACCATGGCCAAACCAGCACAGGGTGCCAAGTACCGGGGCTCCATCCATGAC
TTCCCAGGCTTTGACCCCAACCAGGATGCCGAGGCTCTGTACACTGCCATGAAGGGCTTTGGCAGTGACAAGGAG
GCCATACTGGACATAATCACCTCACGGAGCAACAGGCAGAGGCAGGAGGTCTGCCAGAGCTACAAGTCCCTCTAC
GGCAAGGACCTCATTGCTGATTTAAAGTATGAATTGACGGGCAAGTTTGAACGGTTGATTGTGGGCCTGATGAGG
CCACCTGCCATTATTGTGATGCCAAAGAAATTAAGATGCCATCTCGGGCATTGGCACTGATGAGAAGTGCCTCATT
GAGATCTTGGCTTCCCGGACCAATGAGCAGATGCACCAGCTGGTGGCAGCATACAAAGATGCCTACGAGCGGGAC
CTGGAGGCTGACATCATCGGCGACACCTCTGGCCACTTCCAGAAGATGCTTGTGGTCTCTCCAGGGAACCAGG
GAGGAGGATGACGTAGTGAGCGAGGACCTGGTACAACAGGATGTCCAGGACCTATACGAGGCAGGGGAACCTGAAA
TGGGGAACAGATGAAGCCCACTTCATTTACATCTTGGGAAATCGCAGCAAGCAGCATCTTCGGTTGGTGTTCGAT
GAGTATCTGAAGACCACAGGGAAGCCGATTGAAGCCAGCATCCGAGGGGAGCTGTCTGGGGACTTTGAGAAGCTA
ATGCTGGCCGTAGTGAAGTGTATCCGGAGCACCCCGGAATATTTTGTGAAAGGCTCTTCAAGGCTATGAAGGGC
CTGGGGACTCGGGACAACACCTGATCCGCATCATGGTCTCCCGTAGTGAGTTGGACATGCTCGACATTCCGGAG
ATCTTCCGGACCAAGTATGAGAAGTCCCTCTACAGCATGATCAAGAATGACACCTCTGGCGAGTACAAGAAGACT
CTGCTGAAGCTGTCTGGGGGAGATGATGATGCTGCTGGCCAGTTCTTCCCGGAGGCAGCGCAGGTGGCCTATCAG
ATGTGGGAACTTAGTGAGTGGCCCCGAGTAGAGCTGAAGGGAAGTGTGCGCCCAAGCAATGACTTCAACCTGAC
GCAGATGCCAAAGCGCTGCGGAAAGCCATGAAGGGACTCGGGACTGACGAAGACACAATCATCGATATCATCAG
CACCGCAGCAATGTCCAGCGGCAGCAGATCCGGCAGACCTTCAAGTCTCACTTTGGCCGGGACTTAATGACTGAC
CTGAAGTCTGAGATCTCTGGAGACCTGGCAAGGCTGATTCTGGGGCTCATGATGCCACCGGCCCATACGATGCC
AAGCAGTTGAAGAAGGCCATGGAGGGAGCCGGCACAGATGAAAAGGCTCTTATTGAAATCCTGGCCACTCGGACC
AATGCTGAAATCCGGGCCATCAATGAGGCCATAAGGAGGACTATCACAAGTCCCTGGAGGATGCTCTGAGCTCA
GACACATCTGGCCACTTCAGGAGGATCCTCATTCTCTGGCCACGGGGCATCGTGAGGAGGGAGGAGAAAACCTG
GACCAGGCACGGGAAGATGCCCAGGTGGCTGCTGAGATCTTGGAAATAGCAGACACACCTAGTGGAGACAAAACCT
TCCTTGGAGACACGTTTCATGACGATCCTGTGTACCCGGAGCTATCCGCACCTCCGGAGAGTCTTCCAGGAGTTC
ATCAAGATGACCAACTATGACGTGGAGCACACCATCAAGAAGGAGATGTCTGGGGATGTCAGGGATGCATTTGTG
GCCATTGTTCAAAGTGTCAAGAACAAGCCTCTCTTCTTTGCCGACAACTTTACAAATCCATGAAGGGTGTGTC
ACAGATGAGAAGACTCTGACCAGGATCATGGTATCCCGCAGTGAGATTGACCTGCTCAACATCCGGAGGGAATTC
ATTGAGAAATATGACAAGTCTCTCCACCAAGCCATTGAGGGTGACACCTCCGGAGACTTCTGAAGGCCTTGCTG
GCTCTCTGTGGTGGTGAGGACTAGGGCCACAGCTTTGGCGGGCACTTCTGCCAAGAAATGGTTATCAGCACCAGC
CGCCATGGCCAAGCCTGATTGTTCCAGCTCCAGAGACTAAGGAAGGGGCAGGGGTGGGGGGAGGGGTGGGGTTGG
GCTCTTATCTTCAGTGGAGCTTAGGAAACGCTCCCACTCCCAAGGGCCATCGAGGGCCAGCAGGCTGAGCGGC
TGAAAAACCGTAGCCATAGATCCTGTCCACCTCCACTCCCTCTGACCCTCAGGCTTCCAGCTTCCCTCCCTT
GCTACAGCCTCTGCCCTGGTTTGGGCTATGTGAGATCCAAAAACATCCTGAACCTCTGTCTGT

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FIGURE 1702

GTCGACCCACGCGTCCGTGCCAGTCTCCGGGGACTTTCCAGGGGTGGGGCGGCGTGTCCGGGCCCCCGGCACTT
CCTCGTCTCGGCCCGGGTGCCCTGCCCCCGTCCAGGAGCCCTAGGAGTGCTACGGGGGGCGGAGCCCTTGCCCG
GGCCGCTGCCCCGTCCCTGGATTCCGGGGCTGGACGCAGCAAGCGGGGCGCTGTGTCCCAAGCTCCCCGTCTCG
CAGCGGGCACAGGCAGGGGCTGAGCTACCCTCATGGAAGGGAGAGGACCGTACCGGATCTACGACCCTGGGGGCA
GCGTGCCCTCAGGAGAGGCATCCGCAGCTTTTGAGCGCCTAGTGAAGGAGAATTCCCGGCTGAAGGAAAAAATGC
AAGGGATAAAGATGTTAGGGGAGCTTTTGGAAGAGTCCCAGATGGAAGCGACCAGGCTCCGGCAGAAGGCAGAGG
AGCTAGTGAAGGACAACGAGCTGCTCCACCACCTTCTCCCTCCTTGGGCTCCTTCGACCCCCCTGGCTGAGCTCA
CAGGAAAGGACTCAAATGTCACAGCATCTCCACAGCCCCCTGCATGCCCCAGTGACAAGCCAGCACCAGTCCAGA
AGCCTCCATCCAGTGGCACCTCCTTGAATTTGAAGTGGTCACTCCTGAGGAGCAGAATTACACAGAGAGCAGCA
GCCATGCCAATGCGATGGCGCTGGGCCCCCTGCCCCGTGAGGACGGCAACCTGATGCTGCACCTGCAGCGCCTGG
AGACCACGCTGAGTGTGTGTGCCGAGGAGCCGGACCACGGCCAGCTCTTACCCACCTGGGCCGATGGCCCTGG
AGTTCAACCGACTGGCATCCAAGGTGCACAAGAATGAGCAGCGCACCTCCATTCTGCAGACCCTGTGTGAGCAGC
TTCGGAAGGAGAACGAGGCTCTGAAGGCCAAGTTGGATAAGGGCCTGGAACAGCGGGATCAGGCTGCCGAGAGGC
TGCGGGAGGAAAAATTTGGAGCTCAAGAAGTTGTTGATGAGCAATGGCAACAAAGAGGGTGCGTCTGGGCGGCCAG
GCTCACCGAAGATGGAAGGGACAGGCAAGAAGGCAGTGGCTGGACAGCAGCAGGCTAGTGTGACGGCAGGTAAGG
TCCAGAGGTGGTGGCCTTGGGCGCACCCGAGAAGAAGGTGAAGATGCTGGAGCAGCAGCGCAGTGAGCTGCTGG
AAGTGAACAAGCAGTGGGACCAGCATTTCGGGTCCATGAAGCAGCAGTATGAGCAGAAGATCACTGAGCTGCGTC
AGAAGCTGGCTGATTTGCAGAAGCAGGTGACTGACCTGGAGGCCGAGCGGGAGCAGAAGCAGCGTGACTTTGACC
GCAAGCTCCTCTGSCAAAGTCCAAGATTGAAATGGAGGAGACCGACAAGGAGCAGCTGACAGCAGAGGCCAAGG
AGCTGCGCCAAAAGGTCAAGTACCTGCAGGATCAGCTGAGCCCACTACCCGACAGCGTGAGTACCAGGAAAAGG
AGATCCAGCGGCTCAACAAGGCCCTGGAGGAAGCACTGAGCATCCAAACCCCGCCATCATCTCCACCAACAGCAT
TTGGGAGCCCAGAAGGAGCAGGGGCCCTCCTAAGGAAACAGGAGCTGGTCACGCAGAATGAGTTGCTGAAACAGC
AGGTGAAGATCTTCGAGGAGGACTTCCAGAGGGAGCGCAGTGATCGTGAGCGCATGAATGAGGAGAAGGAAGAGC
TGAAGAAGCAAGTGGAGAAGCTGCAGGCCCAGGTCAACCTGTCAAATGCCAGCTAAAAGCATTCAAAGATGAGG
AGAAGGCAAGAGAAGCCCTCAGACAGCAGAAGAGGAAAGCAAAGGCCTCAGGAGAGCGTTACCATGTGGAGCCCC
ACCCAGAACATCTCTGCGGGGCCCTACCCCTACGCCCTACCCGCCCATGCCAGCCATGGTGCCACACCATGGCTTCG
AGGACTGGTCCCAGATCCGCTACCCCCCTCCCCCATGGCCATGGAGCACCCGCCCCCACTCCCCAACTCGCGCC
TCTTCCATCTGCCGAATACACCTGGCGTCTACCCCTGTGGAGGGGTTGAAATCCAATCAGAGCTCCCAAGTGA
TGGACCCTCCCACAGCCAGGCCTACAGAACCAGAGTCTCAAAAAATGACCGTGAGGGGCCCTCAGTGAGACCAGA
TTGTGTCATTTGGCTCCACCTTCATCTTGAGAGCCAGCTGATCTCAATTGCCAAAACTAGAAGCCACTTGAC
GGTGTGGCCAGAGCCTCAGCTGGATGAGAGGCTGAGATGGGTGGCCAGCTGTACACCACTCCCTGAACTGAGCT
GTTTACAGGACTGGGGAGGCTCCACCCAGAAGGCTTTCATTTGTACTCTGCTGGGAGTGACTGGGAAAACTCCT
TCCCTGCTGCTGAGTGGAGAGAGGCTCATCCGGCTTGACCCCATCCTTGCAAGCCTCCAGGAGCAGCAAT
CCTAAGAGTGGGAGGCAGCCAAGACCCCTTCTTCAAAACCTCCCGGAAGTGTTTCAGGCCCTCTAGTTGCCA
TGACCAATTTGTGTGTGTGTTAATTTTGCTTCAAGCTCTGTAGCAGGACCTGCCCCACGCACACCCCTACCCC
TCTGTGAGGAGCTGTGGGAAGTGTGGGTTTGTCTCCAGAACAGAAGAGAATGATGGATATTCTGGCTCTGGGGCC
CTCTCCACCACCACTCACAGTAGCCTTGTGAAGCCATCACAGATGGGAGAAGGCCATGCCAGCCACGTCGCGCG
AGGGGCGCCAGCCTGAAGCTGCCAGGCCCTGAGGTTGAGCCCTGGACCCCATAGCTGGAGGCCTGTGGTGCCAG
AAGCCAGATTAGGGTGGCTGTCCATCCCTGGATAGCTATTTGCACGAATCATGGACATAAATCCAAGTTG

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FIGURE 1703

MEGRGPYRIYDPGGSVPSGEASAAFERLVKENSRLKEKMQGIKMLGELLEESQMEATRLRQKAEELVKDNELLPP
PSPSLGSFDPLAELTGKDSNVTASPTAPACPSDKPAPVQKPPSSGTSSEFEVVTPEEQNSPESSSHANAMALGPL
PREDGNLMLHLQRLETTLSVCAEEDHGQLFTHLGRMALEFNRLASKVHKNEQRTSILQTLCEQLRKENEALKAK
LDKGLEQRDQAAERLREENLELKKLLMSNGNKEGASGRPGSPKMEGTGKKAVAGQQQASVTAGKVPEVVALGAPE
KKVKMLEQQRSELLEVKNQWDQHFRSMKQQYEQKITELRQKLADLQKQVTDLEAEREQKQRDFDRKLLLAISKIE
MEETDKEQLTAEAKELRQKVYLQDQLSPLTRQREYQEKEIQRNLKALEEALSIQTPSSPPTAFGSPEGAGALL
RKQELVTQNELLKQQVKIFEEDFORERSDRERMNEEKEELKKQVEKLQAQVTL SNAQLKAFKDEEKAREALRQQK
RKAKASGERYHVEPHPEHLGAYPYAYPPMPAMVPHHGFEDWSQIRYPPPPMAMEHPPPLPNSRLFHLPEYTWRL
PCGGVRNPNQSSQVMDPPTARPTESPKNDRGPQ

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FIGURE 1704

AGCCAAAAGAGGAAGGGACCGGCCTCCACGTCCACAGGGACCTGACTTCCACCTCTCTGCCCAGATTTGCTTAT
GTCACGTGTCGCCCCGGGACGGGGAGGTGGGGAGCTGAGGGCAAGTCGCGCCCGCCCTGAAATCCCAGCCGCCTA
GCGATTGGCTGCAAGGGTCTCGGCTTGGCCGCGGATTAATCACACCCGAGGGCTTGAAAGGTGGCTGGGAGCGCC
GGACACCTCAGACGGACGGTGGCCAGGGATCAGGCAGCGGCTCAGGCGACCCCTGAGTGTGCCCCACCCGCCAT
GGCCCGGCTGCTGCAGGCGTCTGCTGCTTTCCCTGCTCCTGGCCGGCTTCGTCTCGCAGAGCCGGGGACAAGA
GAAGTCGAAGATGGACTGCCATGGTGGCATAAGTGGCACCATTACGAGTACGGAGCCCTCACCATTGATGGGGA
GGAGTACATCCCCTTCAAGCAGTATGCTGGCAAATACGTCTCTTTGTCAACGTGGCCAGCTACTGAGGCCTGAC
GGGCCAGTACATTGAACTGAATGCACTACAGGAAGAGCTTGCAACCATTGGTCTGGTCACTTCTGGGCTTTCCCTG
CAACCAATTTGAAAAACAGGAACCAGGAGAGAACTCAGAGATCCTTCCTACCCCTCAAGTATGTCCGACCAGGTGG
AGGCTTTGTCCCTAATTTCCAGCTCTTTGAGAAAGGGGATGTCAATGGAGAGAAAGAGCAGAAATTCTACACTTT
CCTAAAGAACTCCTGTCTCCACCTCGGAGCTCCTGGGTACATCTGACCGCCTCTTCTGGGAACCCATGAAGGT
TCACGACATCCGCTGGAACCTTGAGAAGTTCCTGGTGGGGCCAGATGGTATACCCATCATGCGCTGGCACCACCG
GACCACGGTCAGCAACGTCAAGATGGACATCCTGTCTACATGAGGCGGCAGGCAGCCCTGGGGGTCAAGAGGAA
GTAACTGAAGGCCGTCTCATCCCATGTCCACCATGTAGGGGAGGGACTTTGTTTCAGGAAGAAATCCGTGTCTCCA
ACCACACTATCTACCCATCACAGACCCCTTTCCTATCACTCAAGGCCCCAGCCTGGCACAAATGGATGCATACAG
TTCTGTGTACTGCCAGGCATGTGGGTGTGGGTGCAATGTGGGTGTTTACACACATGCCTACAGGTATGCGTGATT
GTGTGTGTGTGCATGGGTGTACAGCCACGTGTCTACCTATGTGTCTTTCTGGGAATGTGTACCATCTGTGTGCCT
GCAGCTGTGTAGTGTGACAGTGACAACCCTTTCTCTCCAGTTCTCCACTCCAATGATAATAGTTCACTTATAC
CTAAACCCAAAGGAAAAACCAGCTCTAGGTCCAATTGTTCTGCTCTAACTGATACCTCAACCTTGGGGCCAGCAT
CTCCCACTGCCTCCAAATATTAGTAAGTATGACTGACGTCCCCAGAAGTTTCTGGGTCTACCACACTCCCCAACCC
CCCCACTCCTACTTCTGAAGGGCCCTCCCAAGGCTACATCCCCACCCACAGTTCTCCCTGAGAGAGATCAACC
TCCCTGAGATCAACCAAGGCAGATGTGACAGCAAGGGCCACGGACCCCATGGCAGGGGTGGCGTCTTCATGAGGG
AGGGGCCCCAAGCCCTTGTGGGCGGACCTCCCTGAGCCTGTCTGAGGGGCCAGCCCTTAGTGATTTCAGGCTAA
GGCCCCTGGGCAGGGATGCCACCCCTGCTCCTTCGGAGGACGTGCCCTCACCCCTCACTGGTCCACTGGCTTGAG
ACTACCCCCGTCTGCCCAGTAAAAGCCTTCTGTCAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1705

MARLLQASCLLSLLLAGFVSQSRGQEKSKMDCHGGISGTIYEGALTIDGEEYIPFKQYAGKYVLFVNVASYEGL
TGQYIELNALQEELAPFGLVILGFPCNQFGKQEPGENSEILPTLKYVRPGGGFVPNFQLFEKGDVNGEKEQKFYT
FLKNSCPPTSELLGTSDRLFWEPMKVHDIRWNFEKFLVGPDGIPIMRWHHRTTVSNVKMDILSYMRRQAALGVKR
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FIGURE 1706

AGCCTCGGGGCTTGACGGGATTGTGGCGGTCTCTCTCCCAATTCGGAAGCTACAGCTACCTCCGGACGCTCTCA
AGATGGCGACCTCTCTGGGTTCCAACACCTACAACAGGCAGAACTGGGAGGATGCGGACTTCCCCATTCTGTGCC
AGACATGTCTTGGAGAAAACCCATATATCCGAATGACCAAAGAAAAGTATGGGAAGGAATGCAAAATCTGTGCCA
GGCCATTACAGTGTTCGCTGGTGCCCTGGAGTCCGCATGCGTTTCAAGAAGACTGAAGTGTGCCAAACCTGCA
GTAAATGAAGAATGTCTGTGACACCTGCCTCTTAGACCTAGAGTATGGCCTGCCCATCCAGGTTTCGTGACGCAG
GATTGTCTTTTAAAGATGACATGCCAAAGTCAGATGTCAACAAAGAGTACTATACAGAAATATGGAGAGAGAGA
TTTCTAACTCTGATGGAACACGGCCAGTTGGCATGCTGGGGAAAGCCACATCTACCAGTGACATGCTGCTCAAAC
TGGCCCGGACCACACCTACTACAAAAGGAATCGACCCACATTTGCTCCTTCTGGGTGAAAGGAGAGTGTAAGA
GAGGAGAGGAATGTCCATACAGACATGAGAAGCCTACAGATCCAGATGACCCCTTGCTGATCAGAATATTAAAG
ACCGTTATTACGGAATCAATGATCCTGTAGCTGACAAGCTTCTAAAGCGGGCTTCAACAATGCCTCGGCTGGACC
CACCAGAGGATAAACTATCACCACACTATATGTTGGTGGTCTAGGTGATACCATTTACTGAGACAGATTTAAGAA
ATCAATTTCTACCAGTTCGGAGAGATCCGGACGATCACTGTTGTGTCAGAGACAGCAGTGTGCTTTCATCCAGTTTG
CCACACGGCAGGCTGCAGAAGTGGCTGCTGAGAAGTCCTTTAATAAGTTGATTGTAAATGGCCGCAGACTGAATG
TGAAATGGGGAAGATCCAGGCAGCCAGAGGAAAAGAAAAGAGAAAGATGGAACTACAGACTCTGGGATCAAAC
TAGAACCTGTTCCAGGATTGCCAGGAGCTCTTCTCCTCCTCCTGCAGCAGAAGAAGAAGCCTCTGCCAACTACT
TCAACTTGCCCCCAAGTGGTCTCCAGCTGTGGTGAACATTGCTCTGCCACCGCCCCCTGGCATTGCTCCACCCC
CACCCCAGGTTTTTGGGCCACACATGTTCCACCCAATGGGACCACCCCTCCTTTCATGCGGGCTCCAGGACCAA
TCCACTATCCTTCTCAGGACCCTCAGAGGATGGGAGCTCATGCTGGAAAACACAGCAGCCCTTAGCACCTTGTCA
CCACTCTGGGGCTCTGTGGAAGAAAGGGCACTTAAACTCCCAGTAAATCTTGGAATAAATATATTTTTCTTCC
CTTGTAGTTTCCATGGTAGCTGAATGTGCTCAGATGTGAGCAGTCAGAGACTGACAGCCATGCTTTCCTATACTT
GTTCAAAGGATCGATGGACCGTAAATAAGCTGCCATTAACACATCTGGTTACTGCTGTAACATGACTAATAAAAC
CGAACGCCTGTTCCCTTACCCGTGTGGGGGACACGCAGATGAGTGAATTGGAATGTCCAGCAGAGTTACCCCTCC
CAATTATATGTTTCAATTTTGTATATTTTTTGGTTCGGGGGAAAAATTGACCTGCAGTAAAAAACCTTTGACCATT
TTATGTCCATTGGATACTTTCCTTTTTATCATCTTAAAAAAGATAACTAGTACTAATCATTGTAGTGGCCTAAG
TGTGATTTAACTCTTGAAGTCACACCCTCCGAAAGATGAGTAGAAACCAGCACCAGCACAGCCAGATCTTCTCT
TTCTCTCCTTTTCTCATTATTCCTAAAGGAATCTGACCATTTTACGTCTCTACGGCCAAAAAAGACAAA
ATAAAATTCCTTTTTATTCTGTCAACTGGATGGAAACACAAATTTTCATGGAGCTGTGTACCATCGAAGAAACC
TGGTGTCTGGCATGAAATTACTGTAAAGAACTTCCTGTAAACACGTTCTTTAACAACTGAAATGAAAAGCATT
GGAGCGTCTGAATGAAAGACGTGACCTCCTGCTGGGACTCTGATGGTCTTCAGCATTCACCTTCGTGTGTCTTCA
GTGTCTCATTGTCTATCCCTGCTTCTGTTTGGTCTTAGAGTGTGATATACTGAATTGTAGATGGTAAAGGAA
ATTTGATGTGTTTTTTGTTTTTAAATAATTAAAACGGGTCAATTTT

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FIGURE 1707

MATSLGSNTYNRQNWEDADFPILCQTC LGENPYIRMTKEKYGKECKICARPFTVFRWC PGVVRMRFKKTEVCQTCS
KLKNVCQTCLLDLEYGLPIQVRDAGLSFKDDMPKSDVNKEYYTQNMEREISNSDGTRPVGMLGKATSTSDMLLKL
ARTTPYYKRNRPHICSFVWKGECKRGEECPYRHEKPTD PDDPLADQNIKDRYYGINDPVADKLLKRASTMPRLDP
PEDKTITTLYVGGLGDTITETDLRNHFYQFGEIRTTITVVQRQQCAFIQFATRQAAEVAAEKSFNKLIVNGRRLNV
KWGRSQAARGKEKEKDGT TDSGIKLEPVPGLPGALPPPPAEEEEASANYFNLPPSGPPAVVNIALPPPPGIAPPP
PPGFGPHMFHPMGPPPPFMRAPGPIHYP SQDPQRMGAHAGKHSSP

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FIGURE 1708

CTCCGCCCTCTCCCACTCTCTCTTTCCGGTGTGGAGTCTGGAGACGACGTGCAGAAATGGCACCTCGAAAGGGGA
AGGAAAAGAAGGAAGAACAGGTCATCAGCCTCGGACCTCAGGTGGCTGAAGGAGAGAATGTATTTGGTGTCTGCC
ATATCTTTGCATCCTTCAATGACACTTTTGTCCATGTCACCTGATCTTTCTGGCAAGGAAACCATCTGCCGTGTGA
CTGGTGGGATGAAGGTAAAGGCAGACCGAGATGAATCCTCACCATATGCTGCTATGTTGGCTGCCCAGGATGTGG
CCCAGAGGTGCAAGGAGCTGGGTATCACCGCCCTACACATCAAACCTCCGGGCCACAGGAGGAAATAGGACCAAGA
CCCCTGGACCTGGGGCCAGTCGGCCCTCAGAGCCCTTGCCCGCTCGGGTATGAAGATCGGGCGGATTGAGGATG
TCACCCCATCCCTCTGACAGCACTCGCAGGAAGGGGGGTGCGCGTGGTTCGCGTCTGTGAACAAGATTCCTCA
AAATATTTTCTGTTAATAAATTGCCTTCATGTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1709

MAPRKGKEKKEEQVISLGPQVAEGENVFGVCHIFASFNDTFVHVTDLSGKETICRVTTGGMKVKADRDESSPYAAM
LAAQDVAQRCKELGITALHIKLRATGGNRTKTPGPGAQSALRALARSGMKIGRIEDVTPIPSDSTRRKGGRRGR
L

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FIGURE 1710

ACCAAGTGGGCGGAGTGGCCTTCTGTGGACGAATCAGATTCTCTCCAGCACCGACTTTAAGAGGCGAGCCGGGG
GGTCAGGGTCCCAGATGCACAGGAGGAGAAGCAGGAGCTGTGGGAAGATCAGAAGCCAGTCATGGATGACCAGC
GCGACCTTATCTCCAACAATGAGCAACTGCCCATGCTGGGCGGGCGCCCTGGGGCCCCGGAGAGCAAGTGCAGCC
GCGGAGCCCTGTACACAGGCTTTTCCATCCTGGTGACTCTGCTCCTCGCTGGCCAGGCCACCACCGCTACTTCC
TGTACCAGCAGCAGGGGCCGGCTGGACAACTGACAGTCACCTCCCAGAACCTGCAGCTGGAGAACCTGCGCATGA
AGCTTCCCAAGCCTCCCAAGCCTGTGAGCAAGATGCGCATGGCCACCCCGCTGTGATGCAGGCGCTGCCCCATGG
GAGCCCTGCCCCAGGGGCCCATGCAGAATGCCACCAAGTATGGCAACATGACAGAGGACCATGTGATGCACCTGC
TCCAGAATGCTGACCCCTGAAGGTGTACCCGCCACTGAAGGGGAGCTTCCCGAGAACCTGAGACACCTTAAGA
ACACCATGGAGACCATAGACTGGAAGGTCTTTGAGAGCTGGATGCACCATTGGCTCCTGTTTGAAATGAGCAGGC
ACTCCTTGGAGCAAAAGGCCACTGACGCTCCACCGAAAGTACTGACCAAGTGCCAGGAAGAGGTGAGCCACATCC
CTGCTGTCCACCCGGGTTCAATTCAGGCCCAAGTGCGACGAGAACGGCAACTATCTGCCACTCCAGTGCTATGGGA
GCATCGGCTACTGCTGGTGTGTCTTCCCCAACGGCAGGAGGTCCCCAACACCAGAAGCCGCGGGCACCATAACT
GCAGTGAGTCACTGGAAGTGGAGGACCCGTCTTCTGGGCTGGGTGTGACCAAGCAGGATCTGGGCCCAGTCCCCA
TGTGAGAGCAGCAGAGGCGGTCTTCAACATCCTGCCAGCCCCACACAGCTACAGCTTTCTTGCTCCCTTCAGCCC
CCAGCCCCCTCCCCATCTCCACCCCTGTACCTCATCCCATGAGACCCCTGGTGCTGGCTCTTTCGTCACCCCTTGG
ACAAGACAAACCAAGTCGGAACAGCAGATAACAATGCAGCAAGGCCCTGCTGCCCAATCTCCATCTGTCAACAGG
GGCGTGAGGTCCCAGGAAGTGGCCAAAAGCTAGACAGATCCCCGTTTCTGACATCACAGCAGCCTCCAACACAAG
GCTCCAAGACCTAGGCTCATGGACGAGATGGGAAGGCACAGGGAGAAGGGATAACCCCTACACCCAGACCCCAGGC
TGGACATGCTGACTGTCTCTCCCCCTCCAGCCTTTGGCCTTGGCTTTTCTAGCCTATTTACCTGCAGGCTGAGCC
ACTCTCTTCCCTTTCCCCAGCATCACTCCCCAAGGAAGAGCCAATGTTTTCCACCCATAATCCTTTCTGCCGACC
CCTAGTTCCCTCTGCTCAGCCAAGCTTGTTATCAGCTTTCAGGGCCATGGTTCACATTAGAATAAAAGGTAGTAA
TTAG

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FIGURE 1711

ATAAGATCTGTCCCCCAACTCTCCCAGATCTGTGACCCACATTCTCTCTCCATAGGTGGAAAAGAGGCTGCTTC
AGGCACCACACCTCAGAAGTCCCGGAAGCCCAAGAAAGGGGCTGGGAACCCCAAGCCTCAACCCTGGCGCTGCA
AAGCAACATCACCCAGAGCAAGAAGAAGAAGCTGGGGGCCGGGGAAGGTGGGGAGGCCTCTGTTTCCCCAGA
AAAGACCTCCACGACTTCCAAGGGGAAAGCAAAGAGAGACAAAGCAAGTGGTGATGTCAAGGAGAAGAAAGGGAA
GGGGTCTCTTGGCTCCCAAGGGGCCAAGGACGAGCCAGAAGAGGAGCTTCAGAAGGGGATGGGGACGGTTGAAGG
TGGAGATCAAAGCAACCCAAAGAGCAAGAAGGAGAAGAAGAAATCCGACAAGA

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FIGURE 1712A

GAAGGGCAGACAGAGTGTCCAAAAGCGTGAGAGCACGAAGTGAGGAGAAGGTGGAGAAGAGAGAAGAGGAAGAGG
AAGAGGAAGAGAGGAAGCGGAGGGAAGTGCAGGAGGCTAAAAGGGGAAGAAGAGGATCAGCCCAAGGAGGAGGA
AGAGGAAAACAAGACAAACAGCCAGTGCAGAGGAGAGGAACGTGTGTCCAGTGTCCCGATCCCTGCGGAGCTAGT
AGCTGAGAGCTCTGTGCCCTGGGCACCTTGCAGCCCTGCACCTGCCTGCCACTTCCCCACCGAGGCCATGGGCCC
AGGAGTTCTGCTGCTCCTGCTGGTGGCCACAGCTTGGCATGGTCAGGGAATCCCAGTGATAGAGCCCAGTGTCCC
TGAGCTGGTTCGTGAAGCCAGGAGCAACGGTGACCTTGCGATGTGTGGGCAATGGCAGCGTGGAAATGGGATGGCCC
CCCATCACCTCACTGGACCCTGTACTCTGATGGCTCCAGCAGCATCCTCAGCACCAACAACGCTACCTTCCAAAA
CACGGGGACCTATCGCTGCACTGAGCCTGGAGACCCCTGGGAGGCAGCGCCGCCATCCACCTCTATGTCAAAGA
CCCTGCCCCGGCCCTGGAACGTGCTAGCACAGGAGGTGGTTCGTGTTTCGAGGACCAGGACGCACTACTGCCCTGTCT
GCTCACAGACCCGGTGTGGAAGCAGGCGTCTCGCTGGTTCGTGCTGGTGGCCGGCCCTCATGCGCCACACCAA
CTACTCCTTCTCGCCCTGGCATGGCTTCACCATCCACAGGGCCAAGTTTCATTAGAGCCAGGACTATCAATGCAG
TGCCCTGATGGGTGGCAGGAAGGTGATGTCCATCAGCATCCGGCTGAAAGTGCAGAAAGTCATCCAGGGCCCCC
AGCCTTGACACTGGTGCCTGCAGAGCTGGTGGGATTTCGAGGGGAGGCTGCCAGATCGTGTGCTCAGCCAGCAG
CGTTGATGTTAACTTTGATGTCTTCCCTCCAACACAACAACCAAGCTCGCAATCCCTCAACAATCTGACTTTCA
TAATAACCGTTACCAAAAAGTCTTGACCTCAACCTCGATCAAGTAGATTTCACATGCGGGCAACTACTCCTG
CGTGGCCAGCAACGTGCAGGGCAAGCACTCCACCTCCATGTTCTTCCGGGTGGTAGAGAGTGCCTACTTGAACCT
GAGCTCTGAGCAGAACCTCATCCAGGAGGTGACCGTGGGGGAGGGCTCAACCTCAAAGTCATGGTGGAGGCCA
CCCAGGCTGCAAGGTTTTAACTGGACCTACCTGGGACCCCTTTCTGACCACAGCCTGAGCCCAAGCTTGCTAA
TGCTACCACCAAGGACACATACAGGCACACCTTACCCCTCTCTGCCCCGCTGAAGCCCTCTGAGGCTGGCCG
CTACTCCTTCCCTGGCCAGAAACCCAGGAGGCTGGAGAGCTCTGACGTTTGAGCTCACCTTCGATACCCCCAGA
GGTAAGCGTCATATGGACATTCATCAACGGCTCTGGCACCCCTTTGTGTGCTGCCTCTGGGTACCCCCAGCCCAA
CGTGACATGGCTGCAGTGCAGTGGCCACACTGATAGGTGTGATGAGGCCCAAGTGTGTCAGGTCTGGGATGACCC
ATACCCCTGAGGTCTGAGCCAGGAGCCCTTCCACAAGGTGACGGTGCAGAGCCTGCTGACTGTTGAGACCTTAGA
GCACAACCAAACCTACGAGTGCAGGGCCCAACAGCGTGGGGAGTGGCTCCTGGGCTTCATACCCATCTCTGC
AGGAGCCCAACGCATCCCCCGATGAGTTCTCTTACACCAAGTGGTGGTTCGCTGCATGTCCATCATGGCCTT
GCTGCTGCTGCTGCTCCTGCTGCTATTGTACAGTATAAGCAGAAAGCCCAAGTACCAGGTCCGCTGGAAGATCAT
CGAGAGCTATGAGGGCAACAGTTATACTTTTCATCGACCCACGCAGCTGCCTTACAACGAGAAGTGGGAGTTCCC
CCGGAACAACCTGCAGTTTGGTAAGACCTTCGGAGCTGGAGCCTTTGGGAAGGTGGTGGAGGCCACGGCCTTGG
TCTGGGCAAGGAGGATGCTGTCTGAAGGTGGCTGTGAAGATGCTGAAGTCCACGGCCCATGCTGATGAGAAGGA
GGCCCTCATGTCCGAGCTGAAGATCATGAGCCACCTGGGCCAGCAGGAGAACATCGTCAACCTTCTGGGAGCCTG
TACCCATGGAGGCCCTGTACTGGTCATCACGGAGTACTGTTGCTATGGCGACCTGCTCAACTTTCTGCCAAGGAA
GGCTGAGGCCATGCTGGGACCCAGCCTGAGCCCCGGCCAGGACCCGAGGGAGGCGTCACTATAAGAACAATCCA
CCTCGAGAAGAAATATGTCCGAGGGACAGTGGCTTCTCCAGCCAGGCTGTGGACACCTATGTGGAGATGAGGCC
TGTCTCCACTTCTTCAAATGACTCCTTCTCTGAGCAAGACCTGGACAAGGAGGATGGACGGCCCTGGAGCTCCG
GGACCTGCTTCACTTCTCCAGCCAAGTAGCCAGGGCATGGCCTTCTCGCTTCCAAGAATTGCATCCACCGGGA
CGTGGCAGCGGTAACGTGCTGTTGACCAATGGTCATGTGGCCAAGATTGGGGACTTCGGGCTGGCTAGGGACAT
CATGAATGACTCCAACCTACATTGTCAAGGGCAATGCCGCTGCTGTGAAGTGGATGGCCCCAGAGAGCATCTT
TGACTGTGTCTACACGGTTTCAGAGCGACGTCTGGTCTATGGCATCCTCTCTGGGAGATCTTCTCACTTGGGCT
GAATCCCTACCCCTGGCATCCTGGTGAACAGCAAGTTCTATAAACTGGTGAAGGATGGATACCAAATGGCCAGCC
TGCAATTTGCCCCAAAGAATATATACAGCATCATGCAGGCCCTGCTGGGCTTGGAGCCCAACCAAGACCCACCTT
CCAGCAGATCTGCTCCTTCTCAGGAGCAGGCCCAAGAGGACAGGAGAGAGCGGGACTATACCAATCTGCCGAG
CAGCAGCAGAAGCGGTGGCAGCGGCAGCAGCAGCAGTGAAGTGGAGGAGGAGAGCTCTAGTGAGCAGCTGACCTG
CTGCGAGCAAGGGGATATCGCCAGCCCTTGCTGCAGCCCAACAACCTATCAGTTCTGCTGAGGAGTTGACGACAG
GGAGTACCACTTCCCCCTCCCAAACTTCAACTCCTCCATGGATGGGGCGACACGGGGAGAACATACAAACCTCT
GCCTTCGGTCATTTCACTCAACAGCTCGGCCAGCTCTGAAACTTGGGAAGGTGAGGGATTAGGGGAGGTGAGA
GGATCCCACTTCTGAGCATGGGCCATCACTGCCAGTCAGGGGCTGGGGGCTGAGCCCTCACCCCCCTCCCT
ACTGTTCTCATGGTGTGGCCTCGTGTGCTATGCCAACTAGTAGAACCTTCTTTCTAATCCCCCTTATCTTCA
TGGAATGGACTGACTTTATGCCTATGAAGTCCCAGGAGCTACACTGATACTGAGAAAACAGGCTCTTTGGGG

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FIGURE 1712B

CTAGACAGACTGGCAGAGAGTGAGATCTCCCTCTCTGAGAGGAGCAGCAGATGCTCACAGACCACACTCAGCTCA
GGCCCCCTTGGAGCAGGATGGCTCCTCTAAGAATCTCACAGGACCTCTTAGTCTCTGCCCTATACGCCGCCTTCAC
TCCACAGCCTCACCCTCCACCCCCATACTGGTACTGCTGTAATGAGCCAAGTGGCAGCTAAAAGTTGGGGGTG
TTCTGCCCAGTCCCGTCATTCTGGGCTAGAAGGCAGGGGACCTTGGCATGTGGCTGGCCACACCAAGCAGGAAGC
ACAAACTCCCCCAAGCTGACTCATCCTAACTAACAGTCACGCCGTGGGATGTCTCTGTCCACATTAACTAACAG
CATTAAATGC

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FIGURE 1713

TTTTTCCGGCTGGAACCATGGAGGGTGTAGAAGAGAAGAAGGAGGTTCCCTGCTGTGCCAGAAACCCCTTAAGA
AAAAGCGAAGGAATTTTCGCAGAGCTGAAGATGAAGCGCCTGAGAAAGAAGTTTGCCCAAAAGATGCTTCGAAAGG
CAAGGAGGAAGCTTATCTATGAAAAAGCAAAGCACTATCACAGGAATATAGGCAGATGTACAGGACTGAAATTC
GAATGGCGAGGATGGCAAGAAAAGCTGGCAACTTCTATGTACCTGCAGAACCCAAATTGGCGTTTGTATCAGAA
TCAGAGGTATCAATGGAGTGAGCCCAAAGGTTGAAAGGTGTTGCAGCTTCTTCGCCTTCGTCAAATCTTCAATG
GAACCTTTGTGAAGCTCAACAAGGCTTCGATTAAACATGCTGAGGATTGTAGAGCCATATATTGCATGGGGGTACC
CCAATCTGAAGTCAGTAAATGAACATACTACAAGCGTGGTTATGGCAAAATCAATAAGAAGCGAATTGCTTTGA
CAGATAACGCTTTGATTGCTCGATCTCTTGGTAAATACGGCATCATCTGCGTGGAGGATTTGATTCATGAGATCT
ATACTGTTGGAAAACGCTTCAAAGAGGCAAATAACTTCCTGTGGCCCTTCAAATTGTCTTCTCCACGAGGTGGA
TGAAGAAAAAGACCACCATTTTGTAGAAGGTGGAGATGCTGGCAACAGGGAGGACCAGATCAACAGGCTTATTA
GAAGAATGAACATAAGGTGTCTACCATGATTATTTTCTAAGCTGGTTGGTTAATAAACAGTACCTGCTCTCAAAT
TGG

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FIGURE 1714

ATGGCCGAGGCCAGGAAGCGGGGAGCTACTTCCCCTGATCTACCACCATCTGCTGCGGGCTGGCTATGTGCGT
GCGGCGCGGGAAGTGAAGGAGCAGAGCGGCCAGTGGGTGGGCCAGAAAGTGTGCTCGCAGGGGCCGAACCTTGT
AATTCCCGCTTCCCTTACCTCCACGCCCTTCTGGTAGCGGGTATTTTAAGTTTCCTAAGTCTCCCGCCACGTGG
CTAGGCTCTGCGCGGCCCCCTGGGGCAAGGAGGTTGCTGCGAGTCTCGGGGTGGATTGCGACCAGCCCCCTCG
GGGAGCGCCTGGAAAAGGGACCCTACAGCCTCTTAGTTGAGCTGGAACTCAGGCCTTTAGCGATTGTCTGTACT
GAGACGGTCAGCTTTGGTACTCGAACTCGTGGTACAGTCATTCTTACTTGATTAAATCAACTGTTAATCCGGTA
CTCAGGGTGCTTCTGGTGTTTGAATGAAGTGTTCCTGGCTCAGCCCGTAACCTTCTGGACATCTATACACAC
TGGCAACAAACCTCAGAGCTTGGTCGGAAGCGGAAGGCAGAGGAAGATGCGGCACTGCAAGCTAAGAAAACCCGT
GTGTCAGACCCCATCAGCACCTCGGAGAGCTCGGAAGAGGAGGAAGAAGCAGAAGCCGAAACGCCAAAGCCAGT
AAGAGCCTTGCAGCTTTGGGAACAGGCTATGGAATATTGATTGTTCTAGGTTTCTATGACCCCTTCTCTCTACT
TTCTATGAAATGGGGGAAGCCCAAAGGTCCAGTCTCCTAACTCCTGGTGTTACGGATTGAATTGTGTTTCCCCA
AAAGGTGTTGIGCTGAGCCTCTGGCTGACAGCTGTGTTTTCTCTGCTCAGCAAAGGCTTTAACCATAAACAGGAG
AAATCGGCCCAGACAGTTGCTGGTACTTTCTGCCAGTACTACTTCACAGAGTCAGTGTCAGCTTCCGAACAGC
ATGGAGGCAGCTCTGAGTCATCCGAATCCAGTGGCCCCCAGCCTGCTCAGCTTCGGCTACCTGTCTGGGAC
TGGGCCAAGCCGAGCTTCGTGGCCGACGGGCCCGGGGAGGCTGGCGAGCAGCCCTCGGCCGCTCCGCCCCAGCCT
CCCCACATCATCTTCACTCCTACGGACGACCAAGGCTACCACGACGTGGGCTACCATGGTTTCAGATATCGAGACC
CCTACGCTGGACAGGCTGGCGGCCAAGGGGGTCAAGTTGGAGAATTATTACATCCAGCCCATCTGCACGCTTCG
CGGAGCCAGCTCCTCACTGGCAGGTACCAGATCCACACAGGACTCCAGCATTCCATCATCCGCCCCACAGACCCC
AACTGCCTGCCCCCTGGACCAGGTGACACTGCCACAGAAGCTGCAGGAGGCAGGTTATTCCACCCATATGGTGGGC
AAGTGGCACCTGGGCTTCTACCGGAAGGAGTGCTGCCCCACCCGTCGGGGCTTCGACACCTTCTTGGGCTCGCTC
ACGGGCAATGTGGACTATTACACCTATGACAACTGTGATGGCCAGGCGGTGTGCGGCTTCGACCTGCACGAGGGT
GAGAATGTGGCTGGGGGCTCAGCGGCCAGTACTCCACTATGCTTTATGCCAGCGCGCCAGCCATATCCTGGCC
AGCCACAGCCCTCAGCGTCCCCTCTTCTCTATGTGGCCTTCCAGGCAGTACACACACCCCTGCAGTCCCCCTCGT
GAGTACCTGTACCGCTACCGCACCATGGGCAATGTGGCCCCGGCGGAAGTACGCGGCCATGGTGACCTGCATGGAT
GAGGCTGTGCGCAACATCACCTGGGCCCTCAAGCGCTACGGTTTCTACAACAACAGTGTATCATCTTCTCCAGT
GACAATGGTGGCCAGACTTTCTCGGGGGGCGAGCAACTGGCCGCTCCGAGGACGCAAGGGCACTTATTGGGAAGGT
GGCGTGGGGGCTAGGCTTTGTCCACAGTCCCCTGCTCAAGCGAAAGCAACGGACAAGCCGGGCACTGATGCAC
ATCACTGACTGGTACCCGACCTGGTGGGTCTGGCAGGTGGTACCACCTCAGCAGCCGATGGGCTAGATGGCTAC
GACGTGTGGCCGCCATCAGCGAGGGCCGGGCCCTACCACGCACGGAGATCCTGCACAACTTGACCCACTCTAC
AACCATGCCCAGCATGGCTCCCTGGAGGGCGGCTTTGGCATCTGGAACACCGCCGTGCAGGCTGCCATCCGCGTG
GGTGAGTGGAAGCTGCTGACAGGAGACCCCGGCTATGGCGATTGGATCCCACCGCAGACACTGGCCACCTTCCCG
GGTAGCTGGTGGAACTGGAACGAATGGCCAGTGTCCGCCAGGCCGTGTGGCTCTTCAACATCAGTGTGACCTT
TATGAACGGGAGGACCTGGCTGGCCAGCGGCTGATGTGGTCCGCACCCCTGCTGGCTCGCCTGGCCGAATATAAC
CGCACAGCCATCCCGGTACGCTACCCAGCTGAGAACCCCCGGGCTCATCCTGACTTTAATGGGGGTGCTTGGGGG
CCCTGGGCCAGTGATGAGGAAGAGGAGGAAGAGGAAGGGAGGGCTCGAAGCTTCTCCCGGGGTGCTCGCAAGAAA
AAATGCAAGATTGCAAGCTTCGATCCTTTTTTCCGTAACTCAACACCAGGCTAATGTCCCAACGGATCTGA

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FIGURE 1715

LDRLAAKGVKLENYYIQPICTPSRSQLLTGRYQIHTGLQHSIIRPQQPNCLPLDQVTLPOKLQEAGYSTHMGKW
HLGFYRKECLPTRRGFDIFLGSLTGNDYTYDNCDDGPGVCGFDLHEGENVAWGLSGQYSTMLYAQRASHILASH
SPQRPLFLYVAFQAVHTPLQSPREYLY

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FIGURE 1716

ATGGGGATAATCAGGCACAGGTCTTTCCGCCAATGCGTTATGATGATTAAAGAAGTTGTCATATTTGTGAACTCG
CGGCAAATCTGGCCTCTCTGTGATTTTCATCACTGTGCACACTCCTCTCCTGCCCTCCACGACAGGCTTGCTGAAT
GACAACACCTTTGCCCAGTGCAAGAAGGGGGTGCGTGTGGTGAACGTGCCCCGTGGAGGGGATCGTGGACGAAGGC
GCCCTGCTCCGGGGCCCTGCAGTCTGGCCAGTGTGCCGGGGCTGCACTGGACGTGTTTACGGAAGTAAGTGCCTGG
CAGCCTCAGCGTCAGGAGGACGGGAGAGATAGGGAGCAGAGAGGCCCATGGCAGGGGAAAGCCTGGCGTTTTACAG
AAAGCCTATAGCTTATTGTCTCTTTCATCCATGGTAAAAGGAGAAAACTGTGTTGCCAAAAACACACCTTTGTGG
TTTGAGGAGTCCTTGCGGAGCCTGTACCTGCTTCTTGCCCGAGGTGTGGCTGTGCAGAGGGGGCTCCCTAACTGC
ATCCTGAGGGTGCTCCCACTATGCACCCTGTGCCAAGCCTGGACACCTGAGGGATCTGTGCCCAATGCTACTGGA
GCCAAGGCTGGGGCTACCTTTAGTGATAGTGTATTATTGTAATTATTGTAACCATTGTGCAGAAATGTCCAGAC
TGGTATGCAGGTATAGCTCATTACCAGGAGGAAAAACACAGAAGGTCTTTGTGCAGTTGCTGTGGTTTTGAGTTTC
TCTGGGATAGCTTGTATTTTGCCAGCAAATGAAAGCTTTGGACCTCTGCAGATGTCACCTGGAGGAGCAGTCAAA
GACATCTTCAGGTTTCATGGTCATATTCATTATGGTGTGTTGTGGCCTTTATGATTGGAACGTACAACCTTCTACTCC
TACTACATTGGTGCAAAACAAAAATGAAGCCTTCACAACAGTTGAAGAGAGTTTTAAGACACTGTTCTGGGCTATA
TTTGACTTGCTGAAGTGAAATCAGTGGTCATCAACTATAACCACAAATTCATTGAAAATATTGGTTATGTTTCGT
TATGGAGTCTATAATGTTACAGTGGTCATTGTTTGTCTAAATGTGTTAATTGCCATGATCAACAATTCATTCCAG
GAAATTGAGGATGATGCTGATGTGGAGTAG

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FIGURE 1717

MGIIRHRSFRQCVMMIKEATFSDSVIIVIIIVTIVTECPDWYAGIAHYQEENTEGLCVAVVLSFSGIACILPANE
SFGPLQMSLGGAVKDI FRFMVIFIMVFVAFMIGTYNFYSYYIGAKQNEAFTTVEESFKILFWAIFGLAEVKSIVI
NYNHKFIENIGYVRYGVYNVTVVIVLLNVLIAMINNSFQEIEDDADVE

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FIGURE 1718

ATGGCGACTGCGACCCCCGTGCCGCCGCGGATGGGCAGCCGCGCTGGCGGCCCCACCACGCCGCTGAGCCCCACG
CGCCTGTGCGCGCTCCAGGAGAAGGAGGAGCTGCGCGAGCTCAATGACCGGCTGGCGGTGTACATCGACAAGGTG
CGCAGCCTGGAGACGGAGAACAGCGCGCTGCAGCTGCAGGTGACGGAGCGCGAGGAGGTGCGCGGCCGTGAGCTC
ACCGGCCCTCAAGGCGCTCTACGAGACCGAGCTGGCCGACGCGCGACGCGCGCTCGACGACACGGCCCCGCGAGCGC
GCCAAGCTGCAGATCGAGCTGGGCAAGTGCAAGGCGGAACACGACCAGCTGCTCCTCAACTATGCTAAGAAGGAA
TCTGATCTTAATGGCGCCAGATCAAGCTTCGAGAATATGAAGCAGCACTGAATTCGAAAAGATGCAGCTCTTGCT
ACTGCACTTGGTGACAAAAAAGTTTAGAGGGAGATTGGAGGATCTGAAGGATCAGATTGCCAGTTGGAAGCC
TCCCTTAGCTGCAGCCAAAAACAGTTAGCAGATGAACTTTACTTAAAGTAGATTGGAGAATCGTTGTCAGAGC
CTTACTGAGGACTTGGAGTTTCGAAAAGCATGTATGAAGAGGAGATTAACGAGACCAGAAGGAAGCATGAAACG
CGCTTGGTAGAGGTGGATTCTGGGCGTCAAATTGAGTATGAGTACAAGCTGGCGCAAGCCCTTCATGAGATGAGA
GAGCAACATGATGCCCCAAGTGAGGCTGTATAAGGAGGAGCTGGAGCAGACTTACCATGCCAACTTGAGAATGCC
AGACTGTCATCAGAGATGAATACTTCTACTGTCAACAGTGCCAGGGAAGAACTGATGGAAAGCCGCATGAGAATT
GAGAGCCTTTCATCCCAGCTTTCTAATCTACAGAAAGAGTCTAGAGCATGTTTGGAAGGATTCAAGAATTAGAG
GACTTGCTTGCTAAAGAAAAAGACAACCTCTCGTCGCATGCTGACAGACAAAGAGAGAGAGATGGCGGAAATAAGG
GATCAAATGCAGCAACAGCTGAATGACTATGAACAGCTTCTTGATGTAAAGTTAGCCCTGGACATGGAAATCAGT
GCTTACAGGAACTCTTAGAAGGCGAAGAAGAGAGGTTGAAGCTGTCTCCAAGCCCTTCTCCCGTGTGACAGTA
TCCCGAGCATCTCAAGTCGTAGTGTACGTACAACCTAGAGGAAAGCGGAAGAGGGTTGATGTGGAAGAATCAGAG
GCGAGTAGTAGTGTAGCATCTCTCATTCCGCCTCAGCCACTGGAATGTTTGCAATCGAAGAAATTGATGTTGAT
GGGAAATTTATCCGCTTGAAGAACACTTCTGAACAGGATCAACCAATGGGAGGCTGGGAGATGATCAGAAAAATT
GGAGACACATCAGTCAGTTATAAATATACCTCAAGATATGTGCTGAAGGCAGGCCAGACTGTTACAATTTGGGCT
GCAAACGCTGGTGTACAGCCAGCCCCCAACTGACCTCATCTGGAAGAACCAGAACTCGTGGGGCACTGGCGAA
GATGTGAAGGTTATATGAAAAATTCTCAGGGAGAGGAGGTTGCTCAAAGAAGTACAGTCTTTAAACAACCAT
CCTGAAGAAGAGGAGGAGGAGGAAGAAGCAGCTGGAGTGGTTGTTGAGGAAGAACTTTCCACCAGCAGGGAACC
CCAAGAGCATCCAATAGAAGCTGTGCAATTATGTAAAATTTTCAACTGTCTTCTCAAATAAAGAAGTATGGTA
ATCTTTACCTGTATACAGTGCAGAGCCTTCTCAGAAGCACAGAATATTTTATATTTCTTTATGTGAATTTTA
AGCTGCAAATCTGATGGCCTTAATTTCTTTTTGACACTGAAAGTTTTGTAAAAGAAATCATGTCCATACACTTT
GTTGCAAGATGTGAATTATTGACACTGAACTTAATAACTGTGTACTGTTTCGGAAGGGGTTCTCAAATTTTTGA
CTTTTTTGTATGTGTGTTTTTCTTTTTTTTAAAGTCTTATGAGGAGGGGAGGGTAAATAAACCACTGTGCGT
CTTGGTGTAATTTGAAGATTGCCCCATCTAGACTAGCAATCTCTTCATTATCTCTGCTATATATAAAACGGTGC
TGTGAGGGAGGGGAAAAGCATTTTTCAATATATTGAACTTTGTACTGAATTTTTTGTAAATAAGCAATCAAGGT
TATAATTTTTTTTAAATAGAAATTTGTAAAGAGCAATATTAACCTAATCACCATGTAAGCACTCTGGATGAT
GGATTCCACAAAACCTGGTTTTATGGTTACTTCTTCTTAGATTCTTAATTCATGAGGAGGGTGGGGAGGGAG
GTGGAGGGAGGGAAGGGTTTCTCTATTAAATGCATTGCTGTGTTTTTAAGATAGTGTAACTTGCTTAAATTT
CTTATGTGACATTAACAAATAAAAAAGCTCTTTT

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FIGURE 1719

MATATPVPPRMGSRAGGPTTPLSPTRLRLQEKEELRELNDRLAVYIDKVRSLLETENSALQLQVTEREEVVRGREL
TGLKALYETELADARRALDDTARERAKLQIELGKCKAEHDQLLLNYAKKESDLNGAQIKLREYEAAALNSKDAALA
TALGDKKSLEGDLLEDLKDQIAQLEASLAAAKQLADETLKVDLENRCQSLTEDLEFRKSMYEEEINETRRKHET
RLVEVDSGRQIEYKYLAQALHEMREQHDAQVRLYKEELEQTYHAKLENARLSSEMNTSTVNSAREELMESRMRI
ESLSSQLSNLQKESRACLERIQELEDLLAKEKDNSRRMLTDKEREMAEIRDQMQQQLNDYEQLLDVKLALDMEIS
AYRKLEGEGERLKLSPSPSSRVTVSRASSRSVRTTRGKRKRVDVEESEASSSVSISHSASATGNVCIEEIDVD
GKFIRLKNTSEQDQPMGGWEMIRKIGDTSVSYKYTSRYVLKAGQTVTIWAANAGVTASPPTDLIWKNQNSWGTGE
DVKVILKNSQGEEVAQRSTVFKTTIPEEEEEEEEAAGVVVEELFHQQGTPRASNRSCAIM

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FIGURE 1720

GGTCTCTGGTCTCCCCTCTCTGAGCACTCTGAGGTCCTTATGTCGTCAGAAGATCGAGAAGCTCAGGAGGATGAA
TTGCTGGCCCTGGCAAGTATTTACGATGGAGATGAATTTAGAAAAGCAGAGTCTGTCCAAGGTGGAGAAACCAGG
ATCTATTTGGATTTGCCACAGAATTTCAAGATATTTGTGAGCGGCAATTCAAATGAGTGTCTCCAGAATAGTGGC
TTTGAATACACCATTGCTTTCTGCCTCCACTTGTGCTGAACTTTGAAGTGGCACCAGATTATCCATCCTCTTCC
CCACCTTCATTACACTTAGTGGCAAATGGCTGTCAACCACTCAGCTATCTGCTCTATGCAAGCACTTAGACAAC
CTATGGGAAGAACACCGTGGCAGCGTGGTCTGTTTGCCTGGATGCAATTTCTTAAGGAAGAGACCCCTAGCATAC
TTGAATATTGTCTCTCCTTTTGTGAGCTCAAGATTGGTTCTCAGAAAAAGTGCAGAGAAGGACAGCTCAAGCTTCT
CCCAACACAGAGCTAGATTTTGGAGGAGCTGCTGGATCTGATGTAGACCAAGAGGAAATTGTGGATGAGAGAGCA
GTGCAGGATGTGGAATCACTGTCAAATCTGATCCAGGAAATCTTGGACTTTGATCAAGCTCAGCAGATAAAATGC
TTTAATAGTAAATTGTTCTGTGTCAGTATCTGTTTCTGTGAGAAGCTGGGTAGTGAATGCATGTACTTCTTGGAG
TGCAGGCATGTGTACTGCAAAGCCTGTCTGAAGGACTACTTTGAAATCCAGATCAGAGATGGCCAGGTTCAATGC
CTCAACTGCCCAGAACCAAGTGCCCTTCGGTGGCCACTCCTGGTCAGGTCAAAGAGTTAGTGGAGCAGAGTTA
TTTGCCCGTTATGACCGCCTTCTCCTCCAGTCCTCCTTGGACCTGATGGCAGATGTGGTGTACTGCCCCGGCCG
TGCTGCCAGCTGCCTGTGATGCAGGAACCTGGCTGCACCATGGGTATCTGCTCCAGCTGCAATTTTGCCTTCTGT
ACTTTGTGAGGTTGACCTACCATGGGGTCTCCCCATGTAAGGTGACTGCAGAGAAATTAATGGACTTACGAAAT
GAATACCTGCAAGCGGATGAGGCTAATAAAAGACTTTTGGATCAAAGGTATGGTAAGAGAGTGATTGAGAAGGCA
CTGGAAGAGATGGAAAGTAAGGAGTGGCTAGAGAAGAACTCAAAGAGCTGCCCATGTTGTGGAAGTCCCATAGAG
AAATTAGACGGATGTAAACAAGATGACATGTACTGGCTGTATGCAATATTTCTGTTGGATTGTCATGGGTTCTCTC
TCTAGAGCAAACCTTTACAAACATTTCAATGACCCTGGTTCACCATGTTTTAACCGGCTGTTTTATGCTGTGGAT
GTTGACGACGATATTTGGGAAGATGAGGTAGAAGACTAGTTAACTACTGCTCAAGATATGGAAGTGGATTGTTTT
TCCCTAATCTTCCGTCAAGTACACAAAGTAACTTTGCGGGATATTTAGGGTACTATTCATTCACCTTCTCCTGCGT
AGAAGATATGGAAGAACGAGGTTTATATTTTCATGTGGTACTACTGAAGAAGGTGCATTGATACATTTTAAATG
TAAGTTGAGAAAAATTTATAAGCCAAAGGTTCAAAAAATTAACTACAGAA

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FIGURE 1721

CGCGGCGGCCTTTCTAGCCGCTGTCCCAAGGGTTGGTCTCGCGCTTTTCGGCTGCGAGCTCTCTGTGGTGCTGGCA
GCGACATGTGGCGCCTCCCGGGACTCCTGGGCCGAGCTCTTCCCGTACACTGGGACCTAGCCTCTGGAGGGTGA
CTCCTAAGTCCACCAGCCAGATGGGCCCTCAGACTACCTCCTCCACTTTGCTGGTTTCTGTGCCTAACCTCGACA
GGTCAGGTCCCCATGGCCAGGCACGAGCGGGGTCCAAGGTCCCATGGATGGAAGGATGCCTTCCAATGGATGT
CTTCCCGTGTCTCCCGAACACCCCTATGGGATGCCATATCTTGGGGCACTCTGGCCGTGCTGGCCCTGCAGCTGG
CAAGGCAGATCCACTTCCAGGCATCCCTGCCAGCAGGACCTCAGCGGGTAGAACACTGCTCCTGGCACAGTCCCC
TGGACCGTTTCTTCTCATCTCCCTTGTGGCACCCATGCTCCTCACTGCGACAACACATCCTCCCCAGCCCCGATG
GCCCAGCTCCCAGGCACACTGGCCTCAGGGAACCCAGGCTTGGCCAGGAAGAAGCCTCAGCTCAGCCCCGGA
TCTCACACAACCTCTTTGAGAGGAGCTCGTCTCAGGACCCCTCTGAGGAAGGTCCCGGTGATTTTGGCTTCTCTGC
ATGCCAGTAGTAGCATCGAGTCCGAGGCCAAAACAGCCAGCCCTCAGCCCACTGGTGAAAAGGAAACAAGATAAAT
CAAAAACCTCTTTCCCTTGAGGAGGCTGTGACTTCCATTAGCAGCTCTTCCAGCTCAGTGTTTCCATCGCTTTCA
ACTTCTGGGAACAGAGAACATGAAGAGTGGCGACCACACGGCAGCCTTTTCTTACTTCCAGAAAGCTGCAGCCC
GCGGCTACAGCAAAGCGCAGTACAATGCGGGCTTGTGTATGAGCATGGCAGAGGCACCCCCAGGGACATTAGCA
AGGCGGTCTTTTATTATCAGTTGGCTGCCAGCCAGGGCCACAGCCTGGCTCAGTACCGCTATGCCAGGTGCCTAC
TACGAGACCCAGCCTCTTCGTGGAACCTGAGCGGCAGAGGGCAGTGTCCTTGCTGAAGCAGGCTGCAGACTCAG
GCTTGAGAGAGGCCCAAGCTTTCCTCGGGGTGCTTTTACCAAGGAGCCCTACCTGGATGAGCAGAGAGCTGTGA
AATATCTTTGGCTTGCAAGCAACAATGGGACTCACAGAGCAGGTACCACCTTGAATTGTCTATGAGAAAGGCC
TTGGTGTGCAGAGGAATCTGGGAGAGGCCCTTGAGATGTTACCAGCAGTCAGCCGCTCTGGGAAATGAGGCCGCC
AGGAGAGGCTGCGAGCCCTCTTTTCCATGGGGGCTGCAGCCCCGGGGCCAGCGACCTGACAGTTACAGGACTGA
AGTCTTTCTCCAGCCCTCCCTCTGCAGCTTGAACACCTGCTAGCAGGAACCTCAGCCCTACCACATGCCTCGA
GCACAGGCAACCTTGGCCTCCTCTGCAGAAGTGGGCATCTCGGAGCCAGCCTGGAAGCCTCCAGCAGGGCTATTC
CCCCACCCCTACCCACTGGAAAGGAGTGTGTGAAGACTAGGTTTTGGCTAAGGTGAGATAAAACATAGTCCCT
GGTGCTCTTAGGGGCCAGAGCGGGCAGGAGGTTGGATAACAAAATAGAGCATCAGCAACCTTTCCAGGTAGA
AATTCAGCGGGAGTTCAGGTTCCCAAGCAATTTACGTACATGGCTGGTAAGTGACTGATCTTTCCCCCGCTT
GGTAGCCTCACAGATGAGTCTTGGATGCATTACAGTCATTTCTGGTCTGTGCACCAAGGATGCATTAGTGAC
CTATGAAAAACCTACTGAAGGGTCCAGAGACCCCTGGTGCTCACCTTAGCCTTTGTCTTTGAGCAAATAACTTAC
CTTCTTCCTTCTTATGCCTGGGTTTTCTCACACTTAAATCTGTACTACTGTTTGCCAATGTCTGATGTGTGTATC
CCTGGTTCACAAGAAGATTTTAGATGGTATTCAAATTAATATTTTCTATTTAGTTATATATTTAATGTATAATAT
AAAAATATGATTAGCATATTGACCTGTAGTTTGATAGATGTTCTGTCTAGGATAAAGCTAACTGTAAAAAAAAT
AGTGAATCAGTTTAAAGAAAAACATAACGTAAAAGTGGGCACAGATCCAGAGAGGTAGCAAAAATCACAGGGGTG
GTTCCATGAATGGCTGACACTTAGGAACTCTGAATTAGGCCATCCTCGAGACTAGCCACCATTCACCTCTGTT
CATCCCCCGTGGGCTCATAATCGTTTTCAATTCACCTTTGATTGGAAGGAAGAAGTTTCTTGCCCAAATGCCTG
GATGTGTCTGCTTGACTTTCAGAACTTCTCACCTCAGCCCTAAAGAGGGAGCCTGTGGGTTCTCAGAGAGATATC
ACAATTTGAGTCCCAAAGAAGAGGCCAGATACCCACCCACCTTCCCCAAATCTTAAGCACCTGCGCCAGTACAG
TCAAGAAGAGGAAAGTGTGTGAAGACCCAGGTCTGGCTCTGCCACTTGCCCTGGCCATGTACCTTGAAGCTGTGA
CCTGACTCCCTATATTTGTTTCCCTCAGTTGTAGACCAAAGGCAATGGTGTCTGCCCTCCTACCTTAGAAGACAAAT
GCAAGGGCATTTCACCACAGAGAGGACCTTTGTGCTCACTTTGGCCAGGAGGCAGTGATGCTCATGGTTGCATG
ACTTTATGAGTCGCTGGGCCAGGGTGGGACCTGGGCCTCCTGACTCCTGCCCCAGAGTTCTTGTCCATCAGTTC
ATACTGCAATTTTATGTGAAAGCATTATGACTGTCTTACCCATGGGAGAGTAAATGTAGATTGAATGCTAGGAGT
CTTAAAGCTGGAGAGTATAGATTTTGAGGTCCCCATTTGGGAAACATGTGCCAGAAATGTCTAGGTGTTTAAATAA
AACAGATATTGGATTATCTC

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FIGURE 1722

MWRLPGLLGRALPRTLGPSTLWRVTPKSTSPDGPQTTSSTLLVPVFNLD RSGPHGPGTSGGPRSHGWKDAFQWMSS
RVSPNTLWDAISWGTILAVLALQLARQIHFAQSLPAGPQORVEHCSWHSPLDRFFSSPLWHPCSSLRQHILPSPDGP
APRHTGLREPRLGQEEASAQPRNFSHNSLRGARPQDPSEEGPGDFGFLHASSSIESEAKPAQPQTGEKEQDKSK
TLSLEEAVTSIQQLFQLSVSIAFNFLGTENMKSGDHTAAFSYFQKAAARGYSKAQYNAGLCHEHGRGTPRDISKA
VLYYQLAASQGHSLAQYRYARCLLRDPASSWNPERQRAVSLLKQAADSGLREQAFLGVLF TKEPYLDEQRAVKY
LWLAANNNGDSQSRYHLGICYEKGLGVQRNLGEALRCYQQSAALGNEAAQERLRALFSMGAAAPGPSDLTVTGLKS
FSSPSLCSLNTLLAGTSRLPHASSTGNLGLCRSGHLGASLEASSRAIPHPYPLERSVVR LGFG

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FIGURE 1723A

GCCCTCCTGATTCTGGGGCCTCCCAGGATGGAGCACCTGAGGCACAGCCCAGGCCCTGGGGGGCAACGGCTACTG
CTGCCCTCCATGCTGCTAGCACTGCTGCTCCTGCTGGCTCCATCCCCAGGCCACGCCACTCGGGTAGTGTAACAG
GTGCCGGAGGAACAGCCACCCCAACACCCCTCATTGGGAGCCTCGCAGCCGACTATGGTTTTCCAGATGTGGGGCAC
CTGTACAAGCTAGAGGTGGGTGCCCCGTACCTTCGCGTGGATGGCAAGACAGGTGACATTTTCACCACCGAGACC
TCCATCGACCGTGAGGGGCTCCGTGAATGCCAGAACCAGCTCCCTGGTGATCCCTGCATCCTGGAGTTTGAGGTA
TCTATCACAGACCTCGTGCAGAATGGCAGCCCCCGGCTGCTAGAGGGCCAGATAGAAGTACAAGACATCAATGAC
AACACACCCAACTTCGCTCACCAGTCACTACTCTGGCCATCCCTGAGAACACCAACATCGGCTCACTCTTCCCC
ATCCCGCTGGCTTCAGACCGTGATGCTGGTCCCAACGGTGTGGCATCCTATGAGCTGCAGGTGGCAGAGGACCAG
GAGGAGAAGCAACCACAGCTCATTGTGATGGGCAACCTGGACCGTGAGCGCTGGGACTCCTATGACCTCACCATC
AAGGTGCAGGATGGCGGCAGCCCCCACGCGCCAGCAGTGCCCTGCTGCGTGTACCGTGCTTGACACCAATGAC
AACGCCCCCAAGTTTGAGCGGCCCTCCTATGAGGCCGAATCTGAGAATAGCCCCATAGGCCACTCGGTCACTC
CAGGTGAAGGCCAATGACTCAGACCAAGGTGCCAATGCAGAAATCGAATACACATTCCACCAGGCGCCCGAAGTT
GTGAGCGCTCTTCTTCGACTGGACAGGAACACTGGACTTATCACTGTTTACGGGCCCGGTGGACCGTGAGGACCTA
AGCACCTGCGCTTCTCAGTGCTTGCTAAGGACCGAGGCACCAACCCCAAGAGTGCCCGTGCCCAAGGTGGTTGTG
ACCGTGAAGGACATGAATGACAATGCCCCACCATGAGATCCGGGGCATAGGGCTAGTGACTCATCAAGATGGG
ATGGCTAACATCTCAGAGGATGTGGCAGAGGAGACAGCTGTGGCCCTGGTGACGGTGTCTGACCAGATGAGGGA
GAGAATGCAGCTGTACCTGTGTGGTGGCAGGTGATGTGCCCTTCCAGCTGCGCCAGGCCAGTGAGACAGGCAGT
GACAGCAAGAAGAAGTATTTCTGCACTACCAACCCCGCTAGACTACGAGAAGGTCAAAGACTACACCATTGAG
ATTGTGGCTGTGGACTCTGGCAACCCCCCACTCTCCAGCACTAACTCCCTCAAGGTGCAGGTGGTGGACGTCAAT
GACAACGCACCTGTCTTCACTCAGAGTGTCACTGAGGTGCGCTTCCCGGAAAACAACAAGCCTGGTGAAGTGATT
GCTGAGATCACTGCCAGTGATGCTGACTCTGGCTCTAATGCTGAGCTGGTTTACTCTCTGGAGCCTGAGCCGGCT
GCTAAGGGCTCTTACCATCTCACCAGAGCTGGAGAGATCCAGGTGAAGACATCTCTGGATCGGGAACAGCGG
GAGAGCTATGAGTTGAAGGTGGTGGCAGCTGACCGGGGCAGTCTAGCCTCCAGGGCACAGCCACTGTCTTGTG
AATGTGCTGGACTGCAATGACAATGACCCCAATTTATGCTGAGTGGCTACAACCTCTCAGTGATGGAGAACATG
CCAGCACTGAGTCCAGTGGGCATGGTGACTGTCAATTGATGGAGACAAGGGGGAGAATGCCCAGGTGCAGCTCTCA
GTGGAGCAGGACAACGGTGACTTTGTTATCCAGAATGGCACAGGCACCATCCTATCCAGCCTGAGCTTTGATCGA
GAGCAACAAAGCACCTACACCTTCCAGCTGAAGGCAGTGGATGGTGGCGTCCACCTCGCTCAGCTTACGTTGGT
GTCACCATCAATGTGCTGGACGAGAATGACAACGCACCCCTATATCACTGCCCCCTTCAACACCTCTCACAAGCTG
CTGACCCCCCAGACACGCTTGGTGAGACGGTCAGCCAGGTGGCAGCCGAGGACTTTGACTCTGGTGCAATGCT
GAGCTGATCTACAGCATTCAGGTGGCAACCCCTATGGACTCTTCCAGATTGGGTACATTACAGGTGCCATCACC
CTGGAGAAGGAGATTGAGCGGCGCCACCATGGGCTACACCGCCTGGTGGTGAAGGTCAAGTACCGCGGCAAGCCC
CCACGCTATGGCACAGCCTTGGTCCATCTTTATGTCAATGAGACTCTGGCCAACCGCACGCTGCTGGAGACCCCTC
CTGGGCCACAGCCTGGACACGCGCTGGATATTGACATTGCTGGGGATCCAGAATATGAGCGCTCCAAGCAGCGT
GGCAACATTCTCTTTGGTGTGGTGGCTGGTGTGGTGGCCGTGGCCTTGTCTATCGCCCTGGCGGTTCTTGTGCGC
TACTGCAGACAGCGGGAGGCCAAAAGTGTTTACCAGGCTGGTAAGAAGGAGACCAAGGACCTGTATGCCCCCAAG
CCCAGTGGCAAGGCCTCCAAGGGAAACAAAAGCAAAGGCAAGAAGAGCAAGTCCCCAAAGCCCGTGAAGCCAGTG
GAGGACGAGGATGAGGCCGGGCTGCAGAAGTCCCTCAAGTTCAACCTGATGAGCGATGCCCCCTGGGGACAGTCCC
CGCATCCACCTGCCCCCTCAACTACCCACCAGGCAGCCCTGACCTGGGCGGCCACTATCGCTCTAACTCCCCACTG
CCTTCCATCCAGCTGCAGCCCCAGTCACCCCTCAGCCTCCAAGAAGCACCAGGTGGTACAGGACCTGCCACCTGCA
AACACATTCTGTGGGCACCGGGGACACCAGTCCACGGGCTCTGAGCAGTACTCCGACTACAGCTACCGACCAAC
CCCCCAAATACCCAGCAAGCAGTTACCTCACCGCCGCTCACCTTCTCGGCCACCAGGCCAGGCCAGGAGCTG
CAGGACCCATCCAGCACAGTTACTATGACAGTGGCCTGGAGGAGTCTGAGACGCCGTCCAGCAAGTCACTCTCA
GGGCTCGACTCGGTCCCTGGCCCTGCCTGAGGATCACTATGAGCGCACCAACCCCTGATGGCAGCATAGGAGAG
ATGGAGCACCCCGAGAATGACCTTCGCCCTTTGCCTGATGTGCCATGACAGGCACATGTACCCGGGAGTGCAGT
GAGTTTGGCCACTCTGACACATGCTGGATGCCTGGCCAGTCATCTCCAGCCGCCGACCAAGAGCAGCGCCCTC
AAACTCTCCACCTTCGTGCCTTACCAGGACCGAGGAGGGCAGGAGCCTGCGGGCGCCGACGCCAGCCCCCG
GAAGACCGGAACACCAAAACGGCCCCCGTGCGCTCCTGCCCTCTACAGTGCCTTCTCCACAGTAGCCATGAT
TCTGCAAGGACTCGGCCACCTTGGAGGAAATCCCCCTGACCCAGACCTCGGACTTCCACCCGACGCCACACCG

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FIGURE 1723B

GCATCTGCCCAGACGGCCAAGCGCGAGATCTACCTGTGAGCCCCCTACTGGCCGGCCGGCCCCCTCCCCAGCC
GCCGGCCAGCTCCCAAATGGCCCATTCAGGGCCTCACTCTCCACCCCTTCAGCGTGGACTTCCTGGCCAGGGCC
CCAAGTGGGGGTATCACTGACCTCATGACCACGCTGGCCCTTCTCCCATGCAGGGTCCAGGTCTCTCCCTCAT
TTCCATCTCCAGCCCCCAGGGGCCCTTCCCCTTTATGGGGCTTCCCCATCTGATGCCCAAGAGGGCTCCTCT
GCAATGACTGGGCTCCTTCCCTTGACTIONCAGGGAGCACCCCTCGATTGGGCAGATGGTGGAGTCAAGGGTGG
GCAGCGTACTTCTAACTCATTGTTTCCCTCATGGCCGACCAGGGCGGGGATAGCATGCCCAATTTAGCCCTGAA
GCAGGGCTGAACTGGGGAGCCCCCTTCCCTGGGAGCTCCCAGAGGAACTCTTGACCACCAGTGGCTCCCTGAAG
GGCTTTTGTTACCAAAGGTGGGGTAGGGACGGGGTGGGAGTGGAGCGGAGGCCTTGTTTTCCCGTG

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FIGURE 1724

GGAGACGCTTCTTCTCTTGCTGCTCTTCTCGTTCCCGAGATCAGCGGCGGGCGGTGACCGCGAGTGGGTCCGGCAC
CGTCTCCGGCTCCGGGTGCGAACAATGCTGACTGATAGCGGAGGCGGCGGCACCTCCTTTGAGGAGGACCTGGAC
TCTGTGGCTCCGCGATCCGCCCCAGCTGGGGCCTCGGAGCCGCTCCGCGGGAGGGGTGGTCTGGGGATCCGC
ACCGTGAGGCTCTTTGGGGAGGCCGGGCCAGCGTCGGGAGTCGGCAGCAGCGGCGGCGGCGGCAGCGGCAGCGGT
ACGGGCGGAGGGGACGCGGCGCTGGATTTCAGTTGGCGGCTGCCGTGCTGAGGACCGGGGGTGGAGGTGGTGCC
TCTGGCAGTGACGAGGACGAAGTGTCGAGGTTGAATCATTATTTTGGACCAAGAAGATCTGGATAACCCAGTG
CTTAAACAACATCAGAGATATCTTATCAAGTACTGCAGAAGGAGCAGACTTACGCACTGTGGATCCAGAGACA
CAGGCACGACTAGAAGCATTGCTAGAAGCAGCAGGAATTGGCAAATTGTCAACTGCTGATGGTAAAGCTTTTGCA
GATCCTGAGGTACTCCGGAGACTGACATCCTCAGTTAGTTGTGCACTGGATGAAGCTGCTGCTGCACTGACACGG
ATGAAAGCAGAAAAACAGCCACAATGCAGGACAAGTGGACACTCGCAGTCTAGCAGAAGCTTGTTTCAATGAGGAT
GTTAATGCTGTTTCGTAAATTGCTAGATGAAGGCAGAAGTGTAATGAACATACAGAAGAAGGAGAAAGCCTGCTG
TGTTTGGCTTGTTTCAAGCAGGATATTATGAATTAGCACAAGTATTGCTTGCTATGCATGCTAATGTTGAAGATCGA
GGGAATAAAGGAGACATAACTCCCTGATGGCAGCTTCCAGTGGAGGTTACTTAGATATTGTGAAATTATTACTT
CTTCATGATGCTGATGTCAACTCCAGTCTGCAACAGGAAACACTGCGCTAACTTATGCATGTGCTGGAGGATTT
GTTGACATTGTTAAAGTGCTCCTTAATGAAGGTGCAAAATATAGAAGATCATAATGAAATGGACATACTCCCTTA
ATGGAAGCAGCCAGTGCAGGTCATGTGGAAGTTGCAAGAGTTCTTTTAGATCATGGTGCAGGCATCAACACTCAT
TCTAATGAATTCAAAGAAAGTGCTCTAACACTTGCTTGCTACAAAGGCCATTTGGATATGGTTTCGCTTTTCTACTT
GAAGCTGGTGCAGATCAAGAGCACAAAACAGATGAGATGCACACTGCCTTAATGGAGGCCTGCATGGATGGACAT
GTAGAGGTGGCACGTTTGCTTTTGGATAGTGGTGTCAAGTGAACATGCCTGCAGATTCATTGAAATCTCCATTG
ACGCTAGCTGCCTGTGGAGGACATGTTGAATTGGCAGCTCTACTTATTGAAAGGGAGCAAATCTTGAAGAAGTT
AATGATGAAGGATACACTCCCTTGATGGAAGCTGCCCCGGAAGGACATGAAGAAATGGTGGCACTACTCTTAGCA
CAAGGAGCAAATATAAATGCCAGACAGAAGAACTCAAGAACTGCTCTTACTTTGGCTTGCTGTGGAGGATTT
TCTGAAGTTGCAGACTTTCTTATTAAGGCAGGGGCTGATATAGAAGTGGCTGCTCCACACCTCTGATGGAGGCA
TCTCAGGAGGGACACCTGGAATTGGTTAAATATTTGCTGGCTTCTGGCGCTAATGTGCATGCTACAACAGCAACA
GGAGACACAGCCTTAACCTATGCTTGTAAGAAATGGACATACGGATGTTGCAGATGTTTTACTTCAAGCAGGGGCT
GATTTAGACAAGCAGGAGGACATGAAGACTATTTTGGAGGGCATAGATCCGGCCAAGCATCAGGTGAGGGTGGCC
TTTGATGCTTGTAAGCTACTACGTAAAGAATAGATGTTGTAGGTAACCAGAACTCTGGATATCTGAATTCCAGCC
AAGAAGTTCCAGGACCTTGCTGGGTGACAAAGGAAATCCTCTTCAATTGAAAAAGATTATGAAGTCCCAATAAAA
AGAGATTTGTATTGCTGGTAAAAA

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FIGURE 1725

MKAENSHNAGQVDTRSLAEACSDGDVNAVRKLLDEGRSVNEHTEEGESLLCLACSAGYYELAQVLLAMHANVEDR
GNKGDITPLMAASSGGYLDIVKLLLLHDADVNSQSATGNTALTYACAGGFVDIVKVLNNEGANIEDHNENGHTPL
MEAASAGHVEVARVLLDHGAGINTHSNEFKESALTACYKGHLDMVRFLLEAGADQEHKTDDEMHTALMEACMDGH
VEVARLLDSCAQVNMPADSFESPLTLAACGGHVELAALLIERGANLEEVNDEGYTPLMEAAREGHEEMVALLLA
QGANINAQTEETQETALTACCGGFSEVADFLIKAGADIELGCSTPLMEASQEGHLELVKYLASGANVHATTAT
GDTALTYACENGHTDVADVLLQAGADLDKQEDMKTILEGIDPAKHQVRVAFDACKLLRKE

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FIGURE 1726

GGCACGAGGGCGGGGAAGATGGCGGATGACAAGGATTCTCTGCCTAAGCTTAAGGACCTGGCATTCTCAAGAAC
CAGCTGGAAAGCCTGCAGCGCGTGTAGAAGACGAAGTCAACAGTGGAGTGGGCCAGGATGGCTCGCTGTTGTCC
TCCCCGTTCTCAAGGGATTCTGGCTGGCTATGTGGTGGCCAACTGAGGGCATCAGCAGTATTGGGCTTTGCT
GTGGGCACCTGCACTGGCATCTATGCGGCTCAGGCATATGCTGTGCCAACGTGGAGAAGACATTAAGGGACTAT
TTGCAGTTGCTACGCAAGGGGCCGACTAGCTCTAGGTGCCATGGAAGAGGCAGGATGAGCAGCTCAGCCTTCAG
GTGGAGACACTTTATCTGGATTCCCCAGCTGTTCATCCATTTGCTATCTCCAACCTTCTGCCACCTTCATCCTTG
CCTCCCTTCTGTCAGATTGTGGACAGTAGTTCCTCAGCCTGCACCCTGGATTCTTCTTCCCCTTCTAGCTCCA
TGGGACTCGCCCCAAGACTGTGGCTTCAAGGACCACCAGCCCCCTACTCTTCAAGCCCTGACTGTGGAGTTGGTA
GATGCCTCTGATCCTCAGTATTCTCTCTGGCAATGTTCCACGGCTTCTCCTTCTGGGAGCTGGCTCCATAACTT
GATTTTCCCCAAACGTGTTGCAATCCCTGCTGCCCTTAGCCACCCAGGGTCTTGTGTGGGTATGAGTGTAGAGG
ATGGGGGTATGCCAGGCCTGGCCGTCCCAGGCAGGCCCGCTGGACCCTGATGCTACTCCTATCCACTGCCATGT
ACGGTGGCCATGCCCCATTGTGGCACTGTGCCATGTGGACGGCCGAGTGCCCTTCCGGCCCTCCTCAGCCGTGC
TGCTGACTGAGCTGACCAAGCTACTGTTATGCGCCTTCTCCCTTCTGGTAGGCTGGCAAGCATGGCCCCAGGGG
CCCCACCCTGGCGCCAGGCTGCTCCCTTCGCACTATCAGCCCTGCTCTATGGCGCTAACAAACACCTGGTGATCT
ATCTTCAGCGTTACATGGACCCAGCACCTACCAGGTGCTGAGTAATCTCAAGATTGGAAGCACAGCTGTGCTCT
ACTGCCTCTGCCTCCGGCACCGCCTCTCTGTGCGTCAGGGGTTAGCGCTGCTGCTGCTGATGGCTGCGGGAGCCT
GCTATGCAGCAGGGGGCCTTCAAGTTCCCGGGAACACCCTTCCCAGTCCCCCTCCAGCAGCTGCTGCCAGCCCCA
TGCCCCCTGCATATCACTCCGCTAGGCCTGCTGCTCCTCATTCTGTACTGCCTCATCTCAGGCTTGTCGTCAGTGT
ACACAGAGCTGCTCATGAAGCGACAGCGGCTGCCCTGGCACTTCAGAACCTCTTCTCTACACTTTTGGTGTGC
TTCTGAATCTAGGTCTGCATGCTGGCGGGGCTCTGGCCCAGGCCCTCCTGGAAGGTTTCTCAGGATGGGCAGCAC
TCGTGGTGTGAGCCAGGCACTAAATGGACTGCTCATGTCTGCTGTATGAAGCATGGCAGCAGCATCACAGCC
TCTTTGTGGTGTCTGCTCGCTGGTGGTCAACGCCGTGCTCTCAGCAGTCTGCTACGGCTGCAGCTCACAGCCG
CCTTCTTCTGGCCACATTGCTCATTTGGCCTGGCCATGCGCCTGTACTATGGCAGCCGCTAGTCCCTGACAACCTT
CCACCCTGATTCGACCCCTGTAGATTGGGCGCCACCACAGATCCCCCTCCCAGGCCCTCCTCCTCTCCCATC
AGCAGCCCTGTAAAGTGCCTTGTGAGAAAAGCTGGAGAAGTGAGGGCAGCCAGGTTATTCTCTGGAGGTTGGT
GGATGAAGGGGTACCCCTAGGAGATGTGAAGTGTGGGTTTGGTTAAGGAAATGCTTACCATCCCCACCCCAAC
CAAGTTCTTCCAGACTAAAGAATTAAGGTAACATCAATACCTAGGCCTGAGAAATAACCCCATCCTTGTGGGCA
GCTCCCTGCTTTGCTCTGCATGAACAGAGTTGATGAAAGTGGGTTGGGCAACAAGTGGCTTCTCTGCTACT
TTAGTACCCAGCAGAGCCACTGGAGCTGGCTAGTCCAGCCCAGCCATGGTGATGACTCTTCCATAAGGGATCC
TCACCCCTTCCACTTTCATGCAAGAAGGCCAGTTGCCACAGATTATACAACCATACCCAAACCACTCTGACAGT
CTCCTCCAGTTCAGCAATGCCATAGAGACATGCTCCCTGCCCTCTCCACAGTGTGCTCCCCACACCTAGCCTTT
GTTCTGGAACCCAGAGAGGGCTGGGCTTGAATCATCTCAGGGAATGTAGCCCCTGGGCCCTGGCTTAAGCCGA
CACTCCTGACCTCTCTGTTACCCCTGAGGGCTGTCTTGAAGCCCGCTACCCACTCTGAGGCTCCTAGGAGGTACC
ATGCTTCCCACTCTGGGGCCTGCCCTGCCTAGCAGTCTCCAGCTCCCAACAGCCTGGGGAAGCTCTGCACAGA
GTGACCTGAGACCAGGTACAGGAAACCTGTAGCTCAATCAGTGTCTCTTTAACTGCATAAGCAATAAGATCTTAA
TAAAGTCTTCTAGGCTGTAGGTTGGTTCTTACAACCACAGCAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1727

MSVEDGGMPGLGRPRQARWTLMLLLSTAMYGAHAPLLALCHVDGRVPFRPSSAVLLTELTKLLLCAFSLLVGWQA
WPQGPPPWQAAPFALSALLYGANNLVIYLQRYMDPSTYQVLSNLKIGSTAVLYCLCLRHRLSVRQGLALLLLM
AAGACYAAGGLQVPGNTLPSPPAAAA SPMP LHITPLGLLLLILYCLISGLSSVYTELLMKRQRLPLALQNLFLY
TFGVLLNLGLHAGGGSGPGLLEGFSGWAALVVLSQALNGLLSAVMKHGSSITRLFVVSCLVNAVLSAVLLRL
QLTAAFFLATLLIGLAMRLYYGSR

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FIGURE 1728A

CAGAAAGCCATGTCGGACTCGGCGCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACTGCTTTTGTAGTGAGATGGTCCCAGAGGCCCTGGAGGAGCGGACTGGTAAG
CACCAGGAGGGTAGTGGGAGTTTGTCTTCTGCTTGGTGCCCTTGAACAAGGCTTCCACGGTCATTCTACTATGAGAT
CCCGGAGGAAAGAGAGAAGGGTTTCGCTGTGGGCAACGTGGTCGCGAACCTTGGTTTGGATCTCGGTAGCCTCTC
AGCCCGCAGGTTCCGGGTGGTGTCTGGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTT
TGTGAACGACCGTCTGGATCGAGAGGAGCTGTGTGGGACACTGCCCTCTTGCACTGTAACCTCTGGAGTTGGTAGT
GGAGAACCCGCTGGAGCTGTTACGCGTGGAAGTGGTGATCCAGGACATCAACGACAACAATCCTGCTTTCCCTAC
CCAGGAAATGAAATTGGAGATTAGCGAGGCCGTGGCTCCGGGGACGCGCTTTCCGCTCGAGAGCGCGCACGATCC
CGATGTGGGAAGCAACTCTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGCAGACGCG
GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCGAGAACGGGAGCCTAGTCTCCAGTT
AGTGCTGACGGCGTTGGACGGAGGGACCCAGCTCTCTCCGCCAGCCTGCCTATTACATCAAGGTGCTGGACGC
GAATGACAATGCGCCTGTCTTCAACCAGTCCTTGTACCGGGCGCGCTCTGGAGGATGCACCCCTCCGGCACGCG
CGTGGTACAAGTCCCTTGCAACGGATCTGGATGAAGGCCCAACGGTGAAATTATTTACTCCTTCGGCAGCCACAA
CCGCGCCGGCGTGGCGCAACTATTGCGCTTAGACCTTGTAACCGGGATGCTGACAATCAAGGGTTCGGCTGGACTT
CGAGGACACCAACTCCATGAGATTACATCCAGGCCAAAGACAAGGGCGCCAATCCCGAAGGAGCACATTGCAA
AGTGTGGTGGAGGTTGTGGATGTGAATGACAACGCCCCGAGATCACAGTCACCTCCGTGTACAGCCAGTACC
CGAGGATGCCCTCTGGGGACTGTCATCGCTTGGCTCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGT
GACCTGCGAAGTTCCACCGGGTCTCCCTTTACGCCCTTACTTCTTCCCTCAAGAATTACTTCACTTTGAAAACAG
TGCAGACCTGGATCGGGAGACTGTGCCAGAATACAACCTCAGCATCACCGCCCGAGACGCCGGAACCCCTTCCCT
CTCAGCCCTTACAATAGTGCCTGTTCAAGTGTCCGACATCAATGACAACCCCTCCACAATCTTCTCAATCTTCTTA
CGACGTTTACATTGAAGAAAACAACCTCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGGACCCCGACGCCCC
GCAGAATGCTCGGCTTTCTTTCTTCTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGGTGCTATTTACAAAT
AAATCGTGACAATGGCATAGTGTATCCTTAGTGCCCTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
TCATATCAGCGATGGGGGCACCCCGGTCTAGCCACCAACATCAGCGTGAACATATTTGTCACTGATCGCAATGA
CAATGCCCCCAGGTCTATATCCTCGGCCAGGTGGGAGCTCGGTGGAGATGCTGCCTCGAGGTACCTCAGCTGG
CCACCTAGTGTACGGGTGGTAGGCTGGGACGCGGATGCAGGGCACAAATGCCTGGCTCTCCTACAGTCTCTTGGG
ATCCCTAACCAGAGCCTTTTGGCATAGGGCTGCACACTGGTCAAATCAGTACTGCCGTCAGTCCAAGACAC
AGATTCACCCAGGCAGACTCTCAGGCTTGTATCAAAGACAATGGGGAGCCTTCGCTCTCCACCACTGCTACCCT
CACTGTGTCACTAACCGAGGACTCTCCTGAAGCCCGAGCCGAGTTCCCTCTGGCTCTGCCCCCGGGAGCAGAA
AAAAAATCTCACCTTTTATCTACTTCTTCTCTAATCTGGTTTCTGTGGGGTTTGTGGTCAAGTGTTCGGAGT
AATCATATTCAAAGTTTACAAGTGAAGCAGTCTAGAGACCTATACCGAGCCCCGGTGAGTCACTGTACCGAAC
ACCAGGGCCCTCCTTGACGCGGACGCGGTGCGGGGAGGCCTGATGTCGCCGACCTTTACCATCAGGTGTATCT
CACCACGACTCCCGCCGACGCGACCCGCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGCCAGAA
CAGCTGCGGAGCTGTGATCCGGTGTCTATAGGCAGTGTGGGTGCAGAGAGCGCCCTCCCGGACAGCAAGC
CCCGCCCAACACGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCGCGCTCCCAAAATGGCGATGACAC
CGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGC
TGATGGGAGCTCCACCCTGGGAGGGGTGCGGCGACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCT
GCAGCACGTGCCGACTACCGCCAGAAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAA
GCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTTCGGGCAAGAAGGAGAAGAAGTAACATGG
AGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACCAGCCAGCTTCTCTTACCTGCACCCAGGCCCTCAGA
GTTTCAGGGCTAACCCCAAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCCA
GTCAGCACCTACCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAA
CTGCTGTACCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTGCCCACACCCGTTTAGTTACAGCT
GAATCCTCCATCTTCAAATCAATCAGGCCCATCCATCCCATGCTCCCTCCTCCCCACCCCACTCCAACAGTT
CCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGG
AAGGGCATCATGACCTCTTGGCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTT
CACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATACCATCCCCATGGTACTGATGCTT
GCTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTTTT

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FIGURE 1728B

CATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTC
CAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGA
CACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGC
CATAAACCAATAACTAGGCTGGACCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAG
CTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTG
AGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGC
AGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGA
ACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTG
CCAGGTGCCGTTTCTCTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTA
AAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAG
CGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAAT
AGCCAGTAGTGTAGTGGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGTCT
GTCCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCCCTCCCCGT
ACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCACCCCCACCTCTTCTGTGTCTCACGC
AAGTTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCT
G

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FIGURE 1729

MVPEAWRSGLVSTGRVVGVLALLGALNKASTVIHYEIPEREKGFVGNVVANLGLDLGSLSARRFRVVGASRR
FFEVNRETGEMFVNDRLDREELCGTLPSCVTLELVVENPLELFSVEVVIQDINDNNPAFPTQEMKLEISEAVAP
GTRFPLESAHDPDVGSNSLQTYELSRNEYFALRVQTRREDSTKYAELVLERALDREREPSLQLVLTALDGGTPALS
ASLP IHIKVL DANDNAPVFNQSLYRARVLEDAPSGTRVVQVLATDLDEGPNGEIIYSFGSHNRAGVRQLFALDLV
TGMLTIKGRLD FEDTKLHEIYIQAKDKGANPEGACHCKVLVEVVDVNDNAPEITVTSVYSPVPEDAPLGTVIALLS
VTDLDAGENGLVTCEVPPGLPFSLTSSLKNYFTLKT SADLDRET VPEYNLSITARDAGTPSLSALTIVRVQVSDI
NDNPPQSSQSSYDVYIEENNLPGAPILNLSVWDPDAPQNARLSFFILLEQGAETGLVGRYFTINRDNGIVSSLVPL
DYEDRREFELTAHISDGGTPVLATNISVNIFVTDNRNDNAPQVLYPRPGSSVEMLPRGTSAGHLVSRVVGWDADA
GHNAWLSYSLGSPNQSLFAIGLHTGQISTARPVQD TDS PRQTLTVLIKDNGEPSLSTTATLT VSVTEDSPEARA
EFP SG SAPREQKNLTFYLLLSLILVSVGFVVT VFGVII FKVKWKQSRDL YRAPVSSLYRTPGPSLHADAVRGG
LMSPHLYHQVYLTTDSRRSDPLLKKPGAASPLASQNTILRSCDPVFYRQVLGAESAPPGQQAPPNTDWRFSQAQR
PGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIP
GSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1730A

ACGCGCCTGAAGCACAAAGCAGATAGCTAGGAATGAACCATCCCTGGGAGTATGTGGAAACAACGGAGGAGCTCT
GACTTCCCAACTGTCCCATTTCTATGGGCGAAGGAAGTGTCTCTGACTTCAGTGGTTAAGGGCAGAATTGAAAATA
ATTCTGGAGGAAGATAAAGAAATGATTCTTGGCGGACTGCACCGGGACTACAAAGGGCTTGCTCTGCTGGGAATCCT
CCTGGGGACTCTGTGGGAGACCGGATGCACCCAGATACGCTATTTCAGTTCCGGAAGAGCTGGAGAAAGGCTCTAG
GGTGGGCGACATCTCCAGGGACCTGGGGCTGGAGCCCCGGGAGCTCGCGGAGCGCGGAGTCCGCATCATCCCCAG
AGGTAGGACGCAGCTTTTCGCCCTGAATCCGCGCAGCGGCAGCTTGGTCACGGCGGGCAGGATAGACCGGGAGGA
GCTCTGTATGGGGGCCATCAAGTGTCAATTAAATCTAGACATTCTGATGGAGGATAAAGTGAAAATATATGGAGT
AGAAGTAGAAGTAAGGGACATTAACGACAATGCGCCTTACTTTTCGTGAAAGTGAATTAGAAAATAAAATTAGTGA
AAATGCAGCCACTGAGATGCGGTTCCCTCTACCCACGCTGGGATCCGGATATCGGGAAGAACTCTCTGCAGAG
CTACGAGCTCAGCCGAACACTCACTTCTCCCTCATCTGCAAAATGGAGCCGACGGTAGTAAGTACCCCGAATT
GGTGTGAAACGCGCCCTGGACCGCGAAGAAAAGGCTGCTCACCACCTGGTCTTACGGCCTCCGACGGGGCGGA
CCCGGTGCGCACAGGCACCGCGCGCATCCGCGTGATGGTTCTGGATGCGAACGACAACGCACCGAGCTTTGTCTCA
GCCGAGTACCGCGCGAGCGTTCCGGAGAATCTGGCCTTGGGCACGCAGCTGCTTGTAGTCAACGCTACCGACCC
TGACGAAGGAGTCAATGCGGAAGTGAGGTATTCTTCCGGTATGTGGACGACAAGGCGGCCCAAGTTTTCAAAT
AGATTGTAATTCAGGGACAATATCAACAATAGGGGAGTTGGACCACGAGGAGTCAGGATTCTACAGATGGAAGT
GCAAGCAATGGATAATGCAGGATATTCTGCGCGAGCCAAAGTCTTGATCACTGTTCTGGACGTGAACGACAATGC
CCCAGAAGTGGTCTCACCTCTCTCGCCAGCTCGGTTCCCGAAAATCTCTCCAGAGGGACATTAATTGCCCTTTT
AAATGTAAATGACCAAGATTCTGAGGAAAACGGACAGGTGATCTGTTTCATCCAAGGAAATCTGCCCTTTAAAT
AGAAAAATCTTACGGAAATTACTATAGTTTAGTCACAGACATAGTCTTGGATAGGGAACAGGTTCTTAGCTACAA
CATCAGAGTGACCGCCACTGACCGGGGAACCCCGCCCTATCCACGGAACTCATATCTCGTGAACGTGGCAGA
CACCAACGACAACCCGCCGCTTCCCTCAGGCCTCTATTCGCTTATATCCAGAGAACATCCAGAGGAGT
TTCCCTCGTCTCTGTGACCGCCACGACCCCGACTGTGAAGAGAACGCCAGATCACTTATTCCTGGCTGAGAA
CACCATCCAAGGGGCAAGCCTATCGTCTACGTGTCCATCAACTCCGACACTGGGGTACTGTATGCGCTGAGCTC
CTTCGACTACGAGCAGTTCGAGACTTGCAAGTGAAAGTGATGGCGCGGGACAACGGGCACCCGCCCTCAGCAG
CAACGTGTGCTTGAGCCTGTTCTGTGCTGGACCAGAACGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCCCAC
GGACGGTTCCACTGGCGTGGAGCTGGCTCCCCGCTCCGCGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGT
GGACAGAGACTCCGGCCAGAACGCTGGCTGTCTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGT
GGGTCTGCACACGGGCGAGGTGCGCACGGCGCGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTAGT
GGCCGTCCAGGACCACGGCCAGCCCTCTCTCCGCCACTGTACGCTCACCCTGGCCGTGGCCGACAGCATCCC
CCAAGTCTTGGCGGACCTCGGCAGCCTCGAGTCTCCAGCTAACTCTGAAACCTCAGACCTCACTCTGTACCTGGT
GGTAGCGGTGGCCGCGGTCTCTGTGCTTCTTGGCCTTGTCTCATCTTGTCTGCTGGCGCTCAGGCTGCGGCGCTG
GCACAAGTCACGCTGCTGCAGGCTTCAGGAGCGGCTTGACAGGAGCGCCGCGCTCGCACTTTGTGGGCGTGGGA
CGGGGTGCAGGCTTTCTTGCAGACCTATTCACAGAGGTTTCCCTCACCACGACTCGCGGAAGAGTCACCTGAT
CTTCCCCCAGCCCAACTATGCAGACATGCTCGTCAGCCAGGAGAGCTTTGAAAAAGCGAGCCCTTTTGCTGTC
AGGTGATTGCGTATTTTCTAAAGACAGTCATGGGTTAATTGAGCAAGCCCCGCCAACACGGACTGGCGTTTCTC
TCAGGCCCAGAGACCCGGCACACGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGA
CACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCGAGTGAAGCTGTGATGGGAGCTCCACCTGGGAGGGGG
TGCCGGCACCATGGGATTGAGCGCCGCTACGGACCCAGTTTACCCTGCAGCACGTGCCGACTACCGCCAGAA
TGCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCGAGCAGGTGG
CAATGGGCAACAAGAAGTCCGGGCAAGAAGGAGAAGAACTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGC
CTTCCCCAACAGCCAGCTTCTCTTACCTGCACCCAGGCTCAGAGTTTACGGGCTAACCCCGAGAATACTG
GTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAGTGCACAGTGCACCTACCCCTTCCCCCAGG
GGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGT
TACTGTAGACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCTGAACCTCTCATCTTCCAAATCAATCA
GGCCCATCCATCCCTCCCTCCCTCCCAACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGG
TGTGAAGTACCAAGTAACCTACAAGCTCCTAGTTCTGAAAAGTTGGAAGGCGATCATGACCTCTTGGCCTCTC
CTTTGATTCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCTTCCAGAGCCCAAGATCAAT
GCTCAAGTTTTGGAGGACATGATACCATCCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTGCTA

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FIGURE 1730B

CCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCC
TTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAG
GAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCCTTGGAGG
AGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCT
TCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGC
ATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGC
TGGGTACTCCAGAGGTGCCACTGGTGAAGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTC
TTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGC
TTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGG
CCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATA
GACCTTCTTCTCCACCCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTG
CCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTT
TACGTGATGGCGGCTGGGCAGCGGGCGGGCGGGCTCCGCGCAGCCGTCGTCTTGATCTGCCCCGCGCGGCCCGT
GTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCT
TCGCATAGTCACGTAGCTCCACCCCCACCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGG
CTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1731

MIPARLHRDYKGLVLLGILLGTLWETGCTQIRYSVP EELEKGSRVGDISRDLGLEPRELAERGVRIIPRGRTQLF
ALNPRSGSLVTAGRIDREELCMGAIKCQLNLDILMEDKVKIYGVEVEVRDINDNAPYFRESELEIKISENAATEM
RFPLPHAWDPDIGKNSLQSYELSPNTHFS LIVQNGADGSKYPELVLKRALDREEKAAHHLVLTASDGGDPVRTGT
ARIRVMVLDANDNAPAFQAQPEYRASVPENLALGTQLLVVNATDPDEGVNAEVRYSFRYVDDKAAQVFKLDCNSGT
ISTIGELDHEESGFYQMEVQAMDNAGYSARAKVLITVLDVNDNAPEVVLTSLASSVPENSPRGTLIALLNVDNDQD
SEENGQVICFIQGNLPFKLEKSYGNYISLVTDIVLDREQVPSYNITVTATDRGTPPLSTETHISLNVADTNDNPP
VFPQASYSAYIPENNPRGVSLSVTAHDPDCEENAIQITSLAENTIQQASLSSYVSINSDTGVLIALSSFDYEQF
RDLQVKVMARDNGHPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRD SGQ
NAWLSYRLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPQVLADL
GSLESPANSETSDLTLYLVVAVAAVSCVFLAFVILLALRLRRWHKSRLQASGGGLTGAPASHFVGVDGVQAFL
QTYSHVSLTTDSRKSHLIFPQPNYADMLVSQESFEKSEPLLLSGDSVFSKDSHGLIEQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1732A

ATGGGGAGCGGCGCCGGGGAGCTGGGCCGGGCTGAGAGGCTGCCAGTGCTCTTCTCTTCCTGCTGTCTTTGTTCTGCCCCGCGCTCTGTGAGCAGATCCGCTACAGGATTCCCGAGGAAATGCCCAAGGGCTCCGTAAGTGGGGAACCTCGCCACGGACCTGGGGTTACAGCTCCAGGAGTTACCGACTCGAAAAGTGGCGCTCAGTTCGGAGAAGCCTTACTTACCGTGAGCGCAGAGAGCGGGGAGTTGCTTGAGCAGCAGGCTAGACAGGGAGGAGATATGCGGGAAGAAGCCA GCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTATCACGTGAATGTGGAGATCGAGGAC ATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTGCAAAATAAGTGAGTCTGCACAGCCTGGCACA CGATTTATATTAGGATCTGCCCATGATGCGGATATTGGTAGCAACACACTGCAGAATTACCAACTCAGTCCCAGT GATCATTCTCACTGATAAATAAAGAGAAAATCAGATGGCAGTAAATACCCCTGAGATGGTATTGAAGACACCTTTG GACAGAGAAAAGCAGAAATCCTACCACTTGACTTTGACTGCCCTTGGACTTTGGAGCTCCACCCCTAAGCAGCACT GCACAGATACACGTTCTAGTGACTGATGCCAATGATAATGCTCCAGTGTTCAAGACGTATACAGGGTGAGC CTTTCAGAAAACGTGTACCCGGGGACCACGGTGCTACAGGTGACTGCCACGGACCAGGATGAGGGTGTCAATGCC GAGATTACTTTCTCTTTCACTGAAGCTAGCCAGATCACCCAATTTGACCTGAACTCTAACACCGGGGAAATTACT GTTTTAAATACATTAGATTTTGAAGAAGTCAAAGAATATTCATAGTTTTTGAAGCAAGGGACGGTGGAGGAATG ATTGCGCAATGCACAGTGGAGGTAGAAGTCATAGATGAAAATGACAACGCCCCAGAAAGTGATATTCAGTCTCTA CCCAACCTAATTATGGAGGACGCCGAGCTGGGAACACATATTGCTTTGCTCAAAGTCCGTGACAAGGATTCCAGA CACAATGGAGAAGTGACTTGTAAATTGGAAGGTGATGTTCCATTTAAATATTAACCTCTTCAAGAAACACGTAT AAATTAGTGACAGATGCTGTTCTAGACCGCGAGCAGAATCCAGAGTACAATATAACCGTTACGGCAACAGATCGG GGCAAGCCTCCCCTCTCTCCAGTTCACAGCATCACCTTGACATTGGTGATGTAAATGACAACGCTCCGGTTTTCT TCACAGTCTTCTATATAGTCCACGTGGCCGAGAACAACCCGCTGGAGCCTCTATTTACAAGTCAGGGCTTCT GATCCGGACTTTGGGGCCCCAACGGCCAAGTCTCTTACTGCATCATGGCCAGTGACCTGGAGCAGCGGGAGCTGTCA TCCTACGTGTCCATAAGCGCGGAGAGCGGGGTGGTGTTGCGCGCAGCGCGCTTCGACCACGAGCAGCTGCGCGCC TTGCAACTCACACTGCAGGCCCGCGACCAGGGCTCGCCAGCGCTCAGCGCGAACGTGAGCCTGCGCGTGTAGTG GACGACCGCAACGACAATGCCACCGGGTGCTGTACCCGCGCTGGGTCCCGACGGCTCTGCGCTCTTCGATATG GTGCCGCACGCTGCAGAGCCTGGCTACTTGGTGACCAAGGTAGTGGCGGTGGACGCACTCAGGACACAACGCC TGGCTGTCTTACCAGTGCTGCAGGCTAGCGAGCCCGGGCTCTTCAGCCTGGGGCTGCGCACGGGCGAAGTGCGC ACAGCGGTGCTTAGCGCAGAGGACGCCGTCCGCCAGCGCCTTCTGGTTCGCCGTGCGTGACGGTGACAGCCA CCACTCTCGGCCACTGCCAGTTGCACCTGGTCTTCGCCGACAGCTTGCAAGGAGGTGCTGCCGGATATCACTGAC CGCCCCGACCCCTCTGACCTCCAGGCTGAGCTGCAGTTTTACCTAGTGGTGGCCTTGGCCTTGATCTCAGTGCTC TTCTCTGTTGGCCATGATTCTGGCCATTGCCTTGCCTGCGCCTGCGACGCTCCTCCAGCCCGCCTCTGGAGCTGCTTC CAGCCTGGTCTCTGTGTTAAATCCGAATCCGTGGTTCCTCCCAACTACAGCGAGGGGACTTTGCCTTATTCCTAC AATCTATGTGTTGCACATACAGGAAAGACGGAGTTAATTTCTAAAATGTAGTGAGCAGTTGAGTTCAGGACAA GACATACTTTGCGGTGATTCTCTGGGGCCTTATTTCCACTTTGTAATTCAGTGAATTGACTTCCCATCAGCAA GCCCGGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACAGCGGCTCCCAAATGGCGATGAC ACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCT GCTGATGGGAGCTCCACCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCGCTACGGACCCAGTTTACC CTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGC AAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTTCGGGCAAGAAGGAGAAGAAGTAAACAT GGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCAACCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCA GAGTTTACAGGCTAACCCCAAGAACTAGTGGTAGGGGCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCC CAGTCAGCACCTACCCCTTCCCCCAGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATC AACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGGCACACCCCGTTTGTGTACAG CTGAACTCCTCCATCTTCAAATCAATCAGGCCATCCATCCCATGCCTCCCTCCTCCCAACCCACTCCAACAG TTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAGTT GGAAGGGCATCATGACCTCTTGGCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCC TTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATCACCATCCCCATGGTACTGATGC TTGCTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCAACGCGCTGGGGACAGTCTTCTGTTTTGTTT TTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGT TCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATGGTGGGGCATGGACAAAGCTT

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FIGURE 1732B

GACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCA
GCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCAGCCAGGCAGCCAGCTTTGGGCTG
AGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCT
TGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCA
GCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAAT
GAACAGAAAGTCTCAGCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCT
TGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGT
TAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTTCTGCCCTGGGTCCCCGGCCATCC
AGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGA
ATAGCCAGTAGTGTAGTGCGGTGTGCTTTACGTGATGGCGGGTGGGCAGCGGGCGGGGGCTCCGCGCAGCCGT
CTGTCCTTGATCTGCCCAGCGCGGCCGCTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCC
GTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCAC
GCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAG
CTG

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FIGURE 1733

MSGAGELGRAERLPVLFLLSLFCPALCEQIRYRIPEEMPKGSVVGNLATDLGFSVQELPTRKLRVSSEKPYF
TVSAESGELLVSSRLDREEICGKKPACALEFEAVAENPLNFYHVNVEIEDINDHTPKFTQNSFELQISESAQPGT
RFILGSAHDADIGSNTLQNYQLSPSDHFSLINKEKSDGSKYPEMVLKTPLDREKQKSYHLTLTALDFGAPPLSST
AQIHVLVTDANDNAPVFSQDVYRVSLSENVYPGTTVLQVTATDQDEGVNAEITFSFSEASQITQFDLNSNTGEIT
VLNTLDFEEVKEYSIVLEARDGGGMIAQCTVEVEVIDENDNAPEVIFQSLPNLIMEDAELGTHIALLKVRDKDSR
HNGEVTCKLEGDVPFKILTSSRNTYKLVTDVLDREQNPEYNTVTATDRGKPLSSSSSITLHIGDVNDNAPVF
SQSSYIVHVAENNPFGASISQVRASDPDLGPNQVSYCIMASDLEQRELSSYVSI SAESGVVFAQRAFDHEQLRA
FELTLQARDQGSPALSANVSLRVLVDDRNDNAPRVLYPALGPDGSALFDMVPHAAEPGYLVTKVVAVDADSGHNA
WLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAVRQRLVAVRDGGQPPLSATATLHLVFADSLQEVLPDITD
RPDPSDLQAELOFYLVVALALISVFLVAMILAIALRLRRSSSPASWSCFPGLCVKSESVVPPNYSEGTLPYSY
NLCVAHTGKTEFNFLKCEQLSSGQDILCGDSSGALFPLCNSSSELTSHQQAPPNTDWRFSQAQRPGTSGSQNGDD
TGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAG
KRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1734A

ATGAAGATTGAGAAAAAGCTGACTGGCTGCAGCAGGCTGATGCTTCTGTGTCTTTCTCTGGAGCTGCTGTTGGAA
GCTGGGGCTGGGAATATTCCTACTCAGTGCCGGAAGAGACAGACAAAGGTTCTTCGTAGGCAACATCGCCAAG
GACCTAGGGCTGCAACCCAGGAGCTGGCAGATGGCGGAGTCCGCATCGTCTCCAGAGGTAGGATGCCGCTTTTC
GCTCTGAATCCTAGAAAGTGGCAGCTTGATCACCAGCGCAGGATAGACCGGGAGGAGCTCTGCGCTCAGAGCATG
CCGTGTCTCGTGAGTTTAAATATCCTTGTTGAGGATAAAATGAAGCTTTTCTCTGTTGAAGTAGAAATAATTGAT
ATTAATGACAACACTCCCCAATTCCAGTTAGAGGAAGTGGAGTTTAAATGAATGAAATAACGACTCCAGGTACC
AGAGTCTCATTGCCCTTTGGGCAAGACCTTGATGTGGGTATGAACTCACTCCAGAGCTACCAACTCAGCTCTAAC
CCTCATTTCTCCTGGATGTGCAACAGGGAGCCGATGGGCCTCAACATCCAGAGATGGTGCTGCAGAGTCCCTTA
GACAGAGAAGAAGAAGCTGTCCACCACCTCATCTCACAGCTTCTGATGGGGGTGAACAGTCCGTTACGGGACC
CTCAGAATTTACATTCAGGTGGTGGATGCAATGACAATCCTCCAGCATTTACTCAGGCACAATACCATATAAAT
GTCCCCGAAAACGTGCCGCTGGGTACTCAGCTGCTCATGGTAAATGCCACTGACCCTGATGAGGGAGCCATGGG
GAAGTAACGTACTCCTTTACAAATGTAGACCACAGAGTGGCCCAAATATTTCGTTTAGATTCTTACACAGAGAA
ATATCAAATAAAGAACCCTAGATTTCGAAGAATACAAATGTATTCAATGGAAGTTCAAGCCAGGATGGTGCG
GGGCTCATGGCTAAAGTTAAGGTACTGATCAAAGTTTGGATGTAAATGATAATGCCCCAGAAGTGACCATCACC
TCTGTCAACCTGCAGTTCAGAAAACTTTCTCTCTGGGACCATAATTGCTCTTATCAGTGTGCATGACCAGGAC
TCAGGAGACAATGGCTACACCACATGTTTCATTCTCGAAATTTACCTTTAAATTGGAAAAGTTAGTTGATAAT
TATTACCGTTTAGTGACTGAAAGAACACTGGACAGAGAACTTATCTCTGGGTACAACATACAATAACAGCAATA
GACCAAGGAAGTCCAGCTCTATCTACTGAAACTCACATTTCACTACTAGTGACAGATATCAATGACAAGTCCCA
GTCTTCCATCAGGACTCTACTCTGCCTACATTTCCGAAAACAACCCAGAGGAGCCTCCATCTTCTCTGTGAGG
GCCACGACTTGGACAGCAATGAGAATGCACAACTACTTCTCTAATAGAGGACACTATCCAGGGGGCAGCC
CTATCTGCCTACCTCTCCATCACTCCGACACTGGGCTCTGTATGCGCTGCGATCCTTCGACTATGAGCAGTTC
CGGGACACTGAACTGAAAGTGATGGCGCGGAGTGGGATCCGCCCCCAGCAGCAACGTGTCTCTCAGCCTA
TTCTGTCTGGACAGCAACGACGCGCCGAGATCCTGTACCCCGCCCTCCCCACAGATGGTTCTACCGCGCTG
GAGCTGGCGCCCTCTCCGACAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCTGGCTGTCTTACCGCTGTCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAG
GTGCGCACGGCGCGAGCCCTGTCTGGACAGAGACGCGCTCAAGCAGAGTCTCGTGGTGGCCGTCCAGGACCAGGC
CAGCCCCGCTCTCCGCCACTGTACGCTCACCGTGGCGGTGGCCGACAGGATCTCCGACATCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCAACGATTCCGACCTCACTCTGTACCTGGTGGTGGCGGCGCGCGGTCT
TCTGCGTCTTCTGCGCTTCGTATCTGTCTGCTGGCGCACAGGCTGCGCGCTGGCACAAAGTACAGTCTGTCTA
CAGGCTTCGGGAGGCGGCTTAGCGAGCATGCCCGGTTTCGCACTTTGTGGGCGTGGACGGGGTTGGGCTTTCTCTG
CAGACCTATTCCCACGAGGCTCTCCCTCACTGCGGACTCGCGGAAGAGCCACCTGATTTTCCCCAGCCCACTAT
GCGGACACACTCATCAGCCAGGAGAGCTGTGAGAAAAAGGTTTCTATCAGCAGCCAGTCTTTACTTGAAGAC
AAAAAGGAACCATTTTCTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCGGCACC
AGCGGCTCCCAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGC
GCCGCTACGGACCCAGTTACCCCTGCAGCAGTGGCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCCG
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCAACAGCCAGCTT
CTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCAAGAACTAGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACCAAGAACCAT
TTGCCACACCCGTTTAGTTACAGCTGAAGTCTCTCATCTTCCAAATCAATCAGGCCATCCATCCCATGCCTCC
CTCTCCCCACCCACTCCAACAGTTCCTCTTTCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTA
CAAGCCTCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCTTACCTCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGA
TCACCATCCCATGGTACTGATGCTTGTGGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTCAATGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCT
CAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGG

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FIGURE 1734B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGGAAAGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCTGTGTCTCACGCAAGTTTTTATACTCTAATATTATATGGCTTTTTTCTTCGACAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1735

MKIQKKLTGCSRLMLLCLSELELLLEAGAGNIHYSVPEETDKGSFVGNI AKDLGLQPQELADGGVRI VSRGRMPLF
ALNPRSGSLITARRIDREELCAQSMPCLVSFNILEDKMKLFPVEVEIIDINDNTPQFQLEEELEFKMNEITTPGT
RVSLPFGQDL DVGMNSLQSYQLSSNP HFSLDVQQGADGPQHPEMVLQSP LDREEEAVHHLILTASDGGE PVRSGT
LRIYIQVVDANDNPPAFTQAQYHINVPENVPLGTQLLMVNATDPDEGANGEVTYSFHNVDHRVAQIFRLDSYTGE
ISNKEPLDFE EYKMYSM EVQAQDGAGLMAKV KVLIKVLDVNDNAPEVTITSVTTAVPENFP PGTI IALISVHDQD
SGDNGYTTCFIPGNLPFKLEKLV DNYYRLVTERTLDRELISGYNITITAI DQGTPALSTETHISLLVTDINDNSP
VFHQDSYSAYIPENNPRGASIFSVRAHDLD SNENAQITYSLIEDTIQGAPLSAYLSINSDTGVL YALRSFDYEQF
RDMQLKVMARDSGDPPLSSNVSLSLFLLDQNDNAPEILYPALPTDGSTGVELAPLSAEPGYLVTKV VAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADRISDILADL
GSLEPSAKPNDSDLTLYLVAAAAVSCVFLAFVIVLLAHLRRWHKSRLLQASGGGLASMPGSHFVGVDGVRAFL
QTY SHEVSLTADSRKSHLIFPQPNYADTLISQESCEKKGFLSAPQSLEDKKEPFSQQAPPNTDWRFSQAQRPGT
SGSQNGDDTG TWPNNQFDTEMLQAMILASASEAADGSS TLGGGAGTMGLSARYGPFQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1736A

ATGGCCGCTCAAAGGAATCGCTCAAAGGAATCAAAGGATTGCAGCGGGCTGGTCCTGCTCTGCCCTTTCTTCGGG
ATTCCATGGGAGGCTGGAGCCCGGCAGATCTCCTACTCAATTCTGAGGAATTAGAGAAAGGCTCTTTTCGTGGGC
AACATCTCCAAGGACTTGGGTCTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATAGTCTCCAGAGGTAGG
ACGCAGCTTTTCTCTCTGAACCCGCGCAGCGGCAGCTTGATCACC CGCGGCAGGATAGACGGGAGGAGCTCTGC
GCTCAGAGCGCGCGGTGCGTGGTGAGTTTAAATATCCTTGTTGGAAGACAGGGTGAAACTTTTGGGATAGAAATA
GAAGTAACTGATATCAATGACAATGCTCCAAAATCCAAGCAGAAAACTAGACGTAAAAATTAATGAAAAATGTC
GCTGCGGGAATGCGTTTTCTCTCCCGGAAGCTATTGATCCGGATGTGGCGTGAACTCCCTGCAGAGTATCAG
CTCAGCCCCAATAAGCACTTCTCCCTAAGAGTTCAGAGCCGTGCCAATGGCGTCAAGTACCCGGAGCTGGTACTG
GAGCACTCCCTAGATCGCGAGGAAGAGGCCATTACCACCTGGTCTCACC GCCTCCGACGGGGGTGACCTCTC
CGATCTGGCACTGTCTTGTGCTGACTGTCTTCGATGCAATGACAACGCGCCGCTTTCACCTTGCCAGAA
TACCGAGTGAGTGTTCCTGAGAATTGCGCTGTGGGCACTCAGCTGCTGACAGTCACAGCCACCGACAGGACGAA
GGTGCCAATGGAGAAGTGACATATTCAATCCGAAAATTACCTGACACGCAATTGTTGAAGTTCCAATAACAAA
TATACTGGAGAAATAAAAAATATCAGAAAATCTAGATTATGAAGAAACCGGTTTCTATGAAATAGAAATACAAGCA
GAAGATGGAGGAGCATATCTTGCACTGCAAAAGTGTGATTACAGTAGAAGATGTAAATGACAACAGTCCAGAG
CTGACCATCAGCTCTCTATTTAGTCCAGTGACTGAAGATTACCTTGCGGAACAGTCGTAGCCCTTTTAAATGTG
CATGATTTAGACTCTGAGCAGAATGGACAGGTAACCTGTTCCATTTTGGCGTATCTACCATTTAAATTAGAAAAG
TCCATTGACAGTTATTACAGATTGGTGATACACAGAGCCCTTGACAGGGAACAGGTATCCTCTTACAATATCACA
GTGACAGCCACAGATGGGGGAAGTCTCTCTATCAACGGAAGCTCACTTTATGCTACAAGTGGCAGATATCAAT
GACAACCCACCTACCTTCTCTCAAGTCTCCTACTTTACCTATATCCAGAGAAACGCCAGGGGTGCCTCCATC
TTCTCAGTGACAGCGCTGGACCCGGACAGCAAGAGAATGCCAGATTATTTACTCCCTGGCTGAAGACACCATC
CAGGGGGTACCTCTGTCTCATAATATCCATCAACTCAGACACTGGCGTCTGTATGCACTCAGATCCTTCGAC
TATGAGCAGTTTCATGAGCTACAGATGCAGGTGACAGCCAGCGACAGCGGGATCCTCCACTCAGCAGCAACGTG
TCGTTGAGCCTGTTTGTGCTGGACCAGAACGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGT
TCCACAGGCGTGAGCTGGCGCCCCGCTCCGCAGAGCCCGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGA
GACTCCGGCCAGAACGCTGGCTGTCTACCGTCTGCTCAAGGCCAGCGAGCCGGGACTCTTCGCGGTGGGGGAG
CACACGGGCGAGGTGCGCACGGCGGAGCCCTGCTGGACAGAGACGCGCTCAAGCAAAGCCTCGTAGTGGCCGTC
CAGGACCACGGCCAGCCCCCTCTCTCCGCCACTGTCAGCTCACC GTGGCGTGGCCGACAGCATCCCCAAGTC
CTGGCGGACCTCGGCAGCTTCGAGTCTCCAGCTAACTCTGAAACCTCAGACCTCACTCTGTACCTGGTGGTAGCG
GTGGCCGCGGTCTCCTGCGTCTCTGCGCTTCGTCATCGTGTGCTGGCGCACAGGCTGCGGCGTGGCACAAG
TCACGCTGCTGCAGGCTTCAGGAGGCGGCTTGACAGGTGTGTCGGGCTCGCACTTTGTGGGCGTGGACGGGTT
CGGGCTTTCTGCAGACCTATTCCCACGAGGTCTCTCTACCCGCGGACTCGCGAAAGAGTCACCTGATCTTCCCC
CAGCCCAATTATGCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAACGATCCTTTGTCTTTGTAGATGAT
TCGAAGTTTCTATAGAGGATACCCATTGGTTCCACAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCC
CAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAG
ATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGGCGGC
ACCATGGGATTGAGCGCCCGCTACGGACCCAGTTACCCCTGCAGCAGTGCCCGACTACCGCCAGAATGTCTAC
ATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGC
AACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAAATGAGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCC
CAACCAGCCCAGCTTCTCCTTACCTGCACCCAGGCTCAGAGTTTCAGGGCTAACCCCAAGAATACTGGTAGGGG
CCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGA
ATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTACTGTA
GACACCAAGAACCATTGTCACACCCCGTTTAGTTACAGCTGAACCTCCATCTTCAAATCAATCAGGCCCAT
CCATCCCATGCTCCTCCTCCCCACCCCACTCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAA
GTACCAAGTAACCTACAAGCTCCTAGTTCTGAAAAGTTGGAAGGCATCATGACCTCTTGGCCTCTCCTTTGAT
TCTCAATCTTCCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACTCCTTCCAGAGCCCAAGATCAATGCTCAAG
TTTTGGAGGACATGATACCATCCCCATGGTACTGATGCTTGTGATTTAGGGAGGGCATTTTGCTACCAAGCC
TCTTCCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTT
CCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGA

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FIGURE 1736B

AGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCT
GTATGTCCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACT
ACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAG
TCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTAC
TCCAGAGGTGCCACTGGTGGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCC
CTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCA
ACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGC
CCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTC
TTCTCCCACCCCCTTCTGCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTAC
AGTAGTGTAGCGCCCCCTCCCTCTTTGGGTGGTGTAGTAATAGCCAGTAGTGTAGTGGGTGTGCTTTTACGTGA
TGGCGGTGGGCAGCGGGCGGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGGGCGGCCCGTGTGTGT
TTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTCTCTATAAGCGCTTCTCTTCGCATA
GTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGCTTTTTT
TCTTCGACAAAAAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1737

MAAQRNRSKESKDCSGLVLLCLFFGIPWEAGARQISYSIPEELEKGSFVGNISKDLGLAPRELAERGVRIVSRGR
TQLFSLNPRSGSLITAGRIDREELCAQSARCVVSFNILVEDRVKLFGEIEVTDINDNAPKFQENLDVKINENV
AAGMRFFLPFAIDPDVGVNSLQSYQLSPNKHFSLRVQSRANGVKYPELVLEHSLDREEEAIIHHLVLTASDGGDPL
RSGTVLVSVTVFDANDNAPVFTLPEYRVSVPENLPVGTQLLTVTATDRDEGANGEVTYSFRKL PDTQLLK FQLNK
YTGEIKISENL DYEETGFYEIEIQAEDGGAYLATAKVLITVEDVNDNSPELTITSLFSPVTEDSPLGTVVALLNV
HDLDSEQNGQVTC SILAYLPFKLEKSIDSYYRLVIHRALDREQVSSYNITVTATDGGSPPLSTEAHFMLQVADIN
DNPPTFSQVSYFTYIPENNARGASIFSVTALDPDSKENAQIIYSLAEDTIQGVPLSSYISINSDTGVLYALRSFD
YEQFHELQMQVTASDSGD PPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDR
DSGQNAWLSYRLLKASEPGLFAVGEHTGEVRTARALLDRDALKQSLVAVQDHGQPPLSATVTLTVAVADSIPQV
LADLGSFESPANSETSDLTLYLVVAVAAVSCVFLAFVIVLLAHLRLRRWHKSRLQASGGGLTGVSGSHFVGVDGV
RAFLQYTSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKNDPLSLDDSKFP IEDTPLVPQAPPNTDWRFSQA
QRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVY
IPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1738A

AGAATGGGCTCTAGGCGCCGCTGCTCACCAATCAGGGAATGGGAAGCTGCGCGCCATTGAGTCCCTCCCTCCCC
GCCTCTACACACAAAGCGGAATGAGATGGATACTCACAGATCCTGACACTGGAGACTTAGAAGTATTTTCCTTC
GCTTTCTGATATATTTTGGATGTAGTCGGCCTAGGACTTCATAGATACATAAGCCGATTACAACCAACCAGCTC
GAGAAACCGCGGAATATCGGCTTAGAGCCTGCCATGCGGAATCGGCTACAGCGCGGGGACCGCAGTCGGCTGCTG
CTGCTGCTGTGCATTTTCTGGGGACGCTGCGGGGGTTCCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAG
ACCGAAAAGGGCTCCTTCGTGGGCAATATCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGA
GTCCGCATCGTCTCCAGAGGGAAGACACAGCTTTTCGCTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAGGC
AGGATAGACCGGGAGGAGCTCTGTGAGACGGTGTCTCTCTGTTTTTAAATATGGAACCTCTCGTGGAAGACACC
TTGAAGATTTACGGAGTGGAGGTGGAATAATAGATATTAATGATAACGCCCCAGCTTCCAGGAGGACGAAGTG
GAGATAAAAGTCAGTGAGCAGCAATTCCTGGGGCGCGATTGCTCTTCTAATGCTAGGGATCCAGATGTGGGC
GTGAACCTCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCTTCAACTGCGGGGCAGAACGGATGGG
GCCAAGAATCCAGAGCTAGTACTGGAGGGAAGCCTGGACCGAGAGAAAGAGGCTGCTCACCTGCTCCTCTCACA
GCTTTAGATGGAGGCGATCCCATCCGAAAGGGCGCAGTTCCCATTCGTGTGGTGGTCTCGATGTAAATGATCAC
ATCCCAATGTTTACACAGTCCGTATATCGCGTGAGTGTTCCAGAAAACATCAGCTCCGGAACCTCGGGTGCTGATG
GTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGAGTAATGTATTCAATTCGGAACATGGAAGCAAGGCT
TCTGAAATATTCCAATTGGATTACAAACTGGAGAAGTTCAAGTACGGGGTCTCTGGATTTTGA AAAATATAGA
TTCTATGAGATGGAAATCAAGGCCAAGATGGTGGAGGTCTCTTTACCACCACGACGATGTTGATCACTGTTGTG
GATGTGAATGATAACGCTCCAGAAATAACTATCACCTCTTCTATTAATTCAATCTGGA AAACCTCTCCTCCAGGT
ACAGTGATTGCTCTTCTAAATGTGCAAGATCAAGATTCTGGAGAAAATGGTCAAGTCTCCTGTTTTATTCTTAAC
CACCTGCCTTTTAAATTAGAAAAGACTTATGGA AATTATTACAAATTGATAACAAGCAGAGTGCTGGACAGGGAG
TTGGTCCAGAGCTACAATATAACGTTGACAGCCACAGACCAGGGAAGCCCGCCTTTGTCTGCAGAAACTCATGTC
TGCTGGAATGTGGCAGATGACAACGATAACCCCTCCGTTTTTCTCTACTCCTCTTACTCTGCCTACATTCCCGAA
AACAAACCCAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCCGGACAGCAAAACAGAATGCCCTGGTCACT
TACTCTCTGACGGATGACACTGTCCAGGGGGTGCTCTGTCTCTCTATGTCTCTATTAACCTCAACACTGGTGTT
CTCTATGCCCTACAATCCTTCGACTATGAGCAGTTCTCGAGACTTAGAAGTGAAGTGAAGCAGTACGCTGACAGCGGG
GACCCGCCCCCTCAGCAACGATGTCGCTGAGCCTGTTCTGTCTGGACCAGAACGACAATGCGCCCGAGATCCTG
TACCCTGCCCTCCCCACAGACGGCTCCACTGGCGTGGAGTGGCGCCCCGCTCTGCGGAACCTGGCTACCTGGTG
ACCAAGGTGGTTGCGGTGGACAAAGATTAGGCCAGAACGCTGGCTGTCTCTATCGCCTGCTTAAGGCCAGCGAG
CCGGGACTCTTTCGCGGTGGGGGAGCACAGGGCGAGGTGCGTACAGCGCGGGCACTGCTGGACAGAGACGCGCTC
AAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGCCAGCCCCCTCTCTCGGCCACCGTCACGCTCACCGTGGCT
GTGGCCGACAGCATCCCCGAAGTCTTGCGGACCTCGGCAGCCTCGAGTCTCTGGCTAACTCTGAAACCTCAGAC
CTCTCGCTGTACTTGGTGGTGGCGGTGGCCGAGTCTCTGCACTTCTCTGGTCTTTGTGTCATCGTGCTGGCA
CTCAGGCTGTGGCGCTGGCATAAGTCACGCCTGCTGCAGGCTTCTGAAGGCGGGTTGGCAGGTATGCCACGTCA
CATTTTGTAGGCGTGGACGGGGTACAGGCTTTTCTGCAAACCTATTCCCACGAGGTCTCTCTCATTGCGGACTCG
CAGAAGAGTCACCTGATTTTCCCCAGCCCAACTATGGGGACAGCTCATCAGCCAGGAGAGCTGTGAGAAAAGC
GAGCCACTCTTGATAGCTGAAGACTCAGCTATCATTTTAGGCAAATGTGACCCGACAAGTAATCAGCAAGCCCCG
CCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACAGCGGCTCCCCAAATGGCGATGACACCGGC
ACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGCGTCCGCCAGTGAAGCTGCTGAT
GGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCTGCAG
CACGTGCCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGG
GATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAGTGGGCAAGAAGGAGAAGAAGTAACATGGAGGC
CAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTT
CAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGCCAGTCA
GCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGC
TGTAACCATGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTTGCCACACCCCGTTTAGTTACAGCTGAAC
TCCTCCATCTTCCAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCACTCCAACAGTTCTCTC
TTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCTAGTTCTGAAAAGTTGGAAGG
GCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACC

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FIGURE 1738B

TCCTTCCAGAGCCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGCTG
GATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATT
GTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAG
ACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACA
TCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATA
AACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAA
CAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAG
GTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGA
AGGGTGGGCCAGCCAGGCCATTCTTAGTCCCIGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAG
AAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAG
GTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGCCCATAGCCTGGTTAAAGT
TCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCTGGGTCCCCGGCCATCCAGCGGG
GCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCC
AGTAGTGTAGTGCAGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGGCTCCGCGCAGCCGTCTGTCC
TTGATCTGCCCCGCGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTACTG
ACTTCTCCTATAAGCGCTTCTCTCGCATAGTCACGTAGCTCCACCCACCCCTCTCCTGTGTCTCACGCAAGT
TTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1739

MANRLQRGDRSRLLLLLCIFLGTLRGFRARQIRYSVPEETEKGSFVGNISKDLGLEPRELAKRGVRIVSRGKTQL
FAVNPRSGSLITAGRIDREELCETVSSCFLNMELLVEDTLKIYGEVEIIDINDNAPSFQEDEVEIKVSEHAIPG
ARFALPNARDPDVGVNSLQSYQLSPNNYFSLQLRGRDGAKNPELVLEGSLDREKEAAHLLLLTALDGGDPIRKG
AVPIRVVVLVDNDHIPMFTQSVYRVSVPENISSGTRVLMVNATDPDEGINGEVMYSFRNMESKASEIFQLDSQTG
EVQVRGSLDFEKYRFYEMEIQQDGGGLFTTTTMLITVVDVNDNAPEITITSSINSILENSPPGTVIALLNVDQD
DSGENGQVSCFIPNHLFPKLEKTYGNYYKLITSRVLDRELVSYNITLTATDQGSPPLSAETHVWLNVDNDNP
PVFPHSSYSAYIPENNPRGASIFSVTALDPDSKQNALVTYSLTDDTVQGVPLSSYVSINSNTGVLYALQSFDEYEQ
FRDLELRVIARDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDKDSG
QNAWLSYRLLKASEPGLFAVGEHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLAD
LGSLESLANSETSDLSLYLVVAVAAVSCIFLVFVIVLLALRLWRWHKSRLLOASEGGLAGMPTSHFVGVDGVQAF
LQYSHEVSLIADSQKSHLIFPQPNYGDTLISQESCEKSEPLLIAEDSAIILGKCDPTSNQQAPPNTDWRFSQAQ
RPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYI
PGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1740A

AAGGGGGTGGAGGTTTGGCCCTAAAGCTTCAGGACACCAAAGAAATTCAGTCGAACAGCCCACCAGTTCTCTCCA
TAGGGACCTGGGTCCCGTGAATGCTGTTATCTCACACCCTGAGGAATAAAGATTGGAATCCGCACTGGATGCTG
GAAGTTGACTCGGAGAAAATTGCGACAGGAGGGAAATGGCGGCTCTGCAAAAGTTGCCACACTGCAGAAAGCTGG
TCCTGCTGTGCTTCTTTTGGCGACCCTGTGGGAGGCCAGGGCCGGGCAGATTGCTATTCTGTGCGGGAAGAGA
TCGACAGAGGCTCCTTCGTAGGCAACATCGCCAAGGACTTGGGTTTGGAGCCCCTGGCACTGGCAGAGCAGGGAG
TCCGCATCGTCTCCAGAGGTAGGTCCCAGCTCTTGTCTGAACCCGCGAAGCGGCAGCTTGGTCACTGCGAACA
GGATAGACCGGGAGGAGCTCTGCGCTCAGAGCGCACCCGTGTCTGTTGAATTTTAACTTCTGCTGGAGGATAAAT
TGACTATTTATTAGTAGAGGTGGAATAACAGATATTAACGATAATGCCCTCGCTTTGGAGTAGAGGAAGTGG
AGCTAAAAATCAGTGAAACCACTACGCCAGGATTCCGGATTCTCTTAAGAATGCGCATGATGCAGACGTAGGTG
AGAACGCCCTTCAGAAGTACGCACTCAACCCAAATGACCCTTCTCCCTGGACGTGCGAAGGGGAGCTGATGGGA
ACAAGTACCCAGAAGTGGTGTGGAGCGCTCTCTGGACCGCGAGGAAGAGGCTGTTACACACCTCGTTCTCGTGG
CTTCTGATGGGGGTGACCCAGTGTCTATCTGGCACCTCCCGCATCTGCGTGAAGGTCTGGATGCGAACGACAATG
CGCTGTTTTTACACAGCCCGAGTACCGCATAAGCATTCCGGAGAATACGCTCGTGGGCACCCGGATACTCACGG
TGACCGCCACTGACGCAGATGAGGGCTACTACGCTCAAGTGGTATATTTTCTAGAGAAAAGCCCTGGAGAAAACCT
CAGAGGTATTTAGCTTAAGTCAACATCTGGAGAATGACAATCATAAAAGATCTAGATTATGAGGATGCTACAT
TCCATGAAATTGATATTGAAGCTCAGGATGGTCCGGGCCCTTCTAACCAGAGCGAAGGTTATCGTCACGGTTCTGG
ATGTGAATGACAATGCCCCAGAATTTTACATGACATCTGCTACTAGCTCAGTTTCTGAAGACTCTCTTCCAGGAA
CCATAATTGGGCTTTTTAATGTACATGATAGAGACTCTGGGCAGAACGCATTACACACCTGTTCACTCCCGAGG
ATCTTCTTTTAAAGTTAGAAAAGTCAGTAGACAATTACTACCGACTGGTTACAACCAGAGCCCTTGACAGGGAAC
AGTTTTCTTTTACAACATCACTCTAACCGCTAAAGATGGAGGGAACCCCTCCCTGTCCACGGATGCTCACATTT
TGCTCCAGGTGGCAGACATCAACGACAACGCACCCGCCTTCTCCGCACATCCTACTCCACCTACATTCCCGAAA
ACAACCCAGAGGAGCCTCTGTCTTCTCAGTGACGGCCCATGACCCCGACAGCAACGACAATGCTCATGTAACCTT
ACTCTTTGCGGGAGGACACTGTTCAAGGGGGCACCCCTTATCTCTTACATCTCTATCAACTCCGACACTGGAGTAC
TCTATGCACTGCGCTCCTTTGATTATGAGCAGTTGCGAGACTTGCAAGTGTGGGTGATAGCGCGGGACAGCGGGA
ACCCTCCACTCAGTAGCAATGTATCATTAAAGCTGTTCTGTCTGGACAGAACGACAACGCGCCCGAGATCCTGT
ACCCTGCCTTCCCCACAGACGGTTCCACTGGCGTGGAGCTGGCGCCCGCTCCGCAGAGCCCGGTACCTGGTGA
CCAAGTGGTGGCGGTGGACAGAGACTCGGGCCAGAACGCCTGGCTGTCTTACCACCTGCTCAAGGCCAGCGAGC
CGGACTCTTCTCGGTGGGTCTGCACACGGGCGAGGTGCGCACGGCGGAGCCCTGCTGGACAGAGACGCGCTCA
AGCAGAGCCTCGTGGTGGCCATCCAGGACCAGGCCAGCCCCCTCTCTCGCCACTGTACGCTCACCGTGGCCG
TGGCCGACAGGATCCCCGACATCCTGGCCGACCTGGGCAGCCTCGAGCCCTCCGCCATACCCAACGATTCCGACC
TCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTCTCCTGCGTCTTCTGGCCTTCGTATCGTGTGCTGGCGC
ACAGGCTGCGGCGCTGGCACAAGTCACGCCTGCTGCAGGCTTCAGGAGGCAGCTTGACAGGCATGCAGAGCTCGC
ACTTTGTGGGCGTGGACGGGGTTTCGGGCTTTCTCTGCAGACCTATTCCCACAGAGTCTCCCTCACTGCGGACTCGC
GGAAGAGCCACCTGATTTTCCCCAGCCCAACTATGCGGACACGCTCATCAGCCAGGAGAGCTGTGAGAAAAAGG
ATTTTTATCAGCGCCTCAATCTCTACTCGAAGAAGAAAGAGAAGAAACGTTTTCTCAGCAAGCCCCGCCCAACA
CGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGC
CCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCT
CCACCTGGGAGGGGGTGGCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTACCCCTGCAGCACGTGC
CCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCA
AGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCA
AGAGCCACAGGGCGGCCCTTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCCTCAGAGTTTCAGGGCT
AACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCCCTGGGAAACAGAAACAAGTGGCCAGTCAGCACCTA
CCCCCTCCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCC
ATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTTGCCACACCCCGTTTTAGTTACAGCTGAACTCCTCCA
TCTTCCAAATCAATCAGGCCATCCATCCCATGCTCCCTCTCCCCACCCCACTCCAACAGTTCTCTTTCCCG
AGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCAT
GACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTTGGTGCCAGCCCTTCACCTCCTTCC
AGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGGATTTAG

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FIGURE 1740B

GGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGAC
GTTTCCACTGCATGCCTTGACTTCCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTAT
GGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTT
ATCAAGGCCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAAT
AACTAGGCTGGACCCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACC
AATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAG
GGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAAGGTCAGCGGAGCCCCAGCAGGAAGGGTGG
GCCAGCCAGGCCATTCTTAGTCCCTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCT
CAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGT
TTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAG
TGCTCCTTGTGCATAGACCTTCTTCTCCACCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCA
GAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTG
TAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCT
GCCCCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTC
CTATAAGCGCTTCTCTTCGCATAGTCACGTAGTCCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTTATAC
TCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1741

MAALQKLPHCRKLVLLCFLLATLWEARAGQIRYSVREEIDRGSFVGNIAKDLGLEPLALAEQGVRIVSRGRSOLF
ALNPRSGSLVTANRIDREELCAQSAPCLLNFNILLEDKLTIIYSVEVEITDINDNAPRFGVEEELKISETTTPGF
RIPLKNAHDADVGENALQKYALNPNDHFSLDVRRGADGNKYPELVLESLDREEEAVHHLVLVASDGGDFVLSGT
SRICVKVLDANDNAPVFTQPEYRISIPENTLVGTRILTVTATDADEGYAQQVVFLEKSPGETSEVFELKSTSGE
LTIKDLDYEDATFHEIDIEAQDGPGLLTRAKVIVTVLDVNDNAPEFYMTSATSSVSEDSLPGTIIIGLFNVHDRD
SGQNAFTTCSLPEDLPFKLEKSVDNYYRLVTTRALDREQFSFYNITLTAKDGGNPSLSTDAHILLQVADINDNAP
AFSRTSYSTYIPENNPRGASVFSVTAHDPDSNDNAHVITYSFAEDTVQGAPLSSYISINSDTGVLVYALRSFDYEQ
RDLQVWVIARDSGNPPLSSNVSLFVLDQNDNAPEILYPAFPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGO
NAWLSYHLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAIQDHGQPPLSATVTLTVAVADRIPDILADL
GSLEPSAIPNDSDLTLYLVVAVAAVSCVFLAFVIVLLAHLRRLRWHKSRLQASGGSLTGMQSSHFVGVGVRÄFL
QYTSHEVSLTADSRKSHLIFPQPNYADTLISQESCEKKDFLSAPQSLLEEEREETFSQQAPPNTDWRFSAQORPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEK

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FIGURE 1742A

ATGACCAATTGCCTGAGTTTCCGAAATGGCAGAGGACTGGCCCTGCTGTGCGCGCTCCTGGGGACGCTGTGCGAA
ACAGGATCCGGTCAGATCCGCTACTCGGTGTCTGAGGAGCTAGATAAAGGTTTCCTTCGTGGGCAACATCGCTAAC
GACCTGGGGCTAGAGCCCCGGGAGCTGGCGGAGCGCGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTC
TCTCTGAATCCGCAAAGCGGCAGCTTGGTCACCGCGGAGAGGATAGACCGGGAGGAGCTCTGCGCTCAGATCCCG
CTGTGTCTGGTAAAAATTAACATTCTGGTTGAGGATAAATTGAAAATTTTGAAGTAGAAATAGAAATTAAAGAT
ATTAATGATAATGCTCCTAATTTCCCAACAGAGGAATTGGAATAAAAAATTGGTGAACCTAACGGTTCCTGGAAAC
CGATTTCCAATTAAAACTGCTTTTGACCCAGATGTAGGCATTAACCTCCCTGCAGAACTACAAGCTTAGCCCCAAT
GACTACTTCTCTCTGGCTGTGAATAGCGTCTCTGAGGGGGCCAAGTATCCAGAGCTGGTGCTGGAGCGGGCCCTG
GACCGTGAGAAAAAGAAATTCACCAGCTTGCTCGGTTGCCTCTGATGGTGGCGACCTGTCCACTCTGGCAAC
TTGCACATCCAAGTGATAGTCTGGATGCAAATGACAACCCACCAATGTTTACTCAGCCTGAGTACCGTGTGAGT
GTTTGGGAGAACGTGCCTGTGGGTACCCGGCTGCTACGGTGAATGCCACTGACCTGACGAGGGATTCAATGCT
CAAGTGTCTTATATTCTAGATAAAATGCCTGGGAAATCGCTGAGATTTTCCATCTTAACTCAGTGAGTGGAGAA
GTATCAATATTAAGAGTCTAGATTATGAGGATGCCATGTTCTATGAAATTAAGTGAAGCACAGGATGGACCA
GGTCTTCTTTCAAGAGCCAAGATTCTAGTCACGGTCTGGATGTGAATGACAATGCTCCAGAAATTACAATCAG
TCTCTCACAAGCTCAGTCCCAGAAGAGGGCACCGTTGGAAGAGAAATTGCTCTTATCGACGTGCATGACCGAGAT
TCTGGGCAGAATGGGCAGGTTGAAGTTTTGTCTGGGAAATCTGCCATTTAAGTTAGAAAAATCAATAGATCAA
TATTACCGCTTAGTGACGGCCACATCCCTGGACCGGAACAAATATCAGAATATAACATTAGTCTGAGAGCCTCA
GATGGGGGAAGCCCGCCACTGTCCACAGAACTCACATCACCTGCATGTGATTGACATCAATGACAACCCACCC
ACCTTCCCTCATTATCTTACTCCGCTACATTCAGAAAAACAACCCAGAGGAGCCTCCATCTTCTCAGTGACA
GCCCAGGACCCAGATAGCAACAACAACGCCCGCATCACTTATGCATTGACCGAGGACACTCTCCAGGGGGCGCCC
CTGTCTCTTCGTCTCTATCAACTCCAACACTGGCGTCTATACGCGCTGAGATCCTTCGACTACGAGCAATTT
AGAGACTTAAAGCTACTGGTGACAGCCAGCGACAGCGGGAACCTCCACTCAGCAGCAACGTGTCTGCTGAACCTG
TTCGTGTGGACCAGAACGACAACGCGCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCTGCGGTG
GAGCTGGCGCCTCGCTCCGCAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCTGGCTGTCTTACCGCTGTCTAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAG
GTGCGCACGGCGGAGCCCTGTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCCTCTCTCCGCCACTGTACGCTCACCGTGGCCGTGGCCGACAGGATCCCCGACATCCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCAACGATTCCGACCTCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGTG
TCTTGGCTCTTCTGGCCTTCGTCTATCGTGTCTGTGGCGCTCAGGCTGCGCGCTGGCACAAGTCACGCTGTCTG
CAGGCTTCGGGAGGCGGCTTGGCGAGTACGCCGGCTCGCACTTTGTGGGCGCGACGGGGTTTCGGGCTTTCTG
CAGACCTATTCCACAGAGTCTCCCTCACTGCGGACTCGCGGAAGAGCCACCTGATTTTCCCCAGCCCAACTAT
GCGGACACGCTCATCAGCCAGGAGAGTGTGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAATG
AAAGGAGATTCCAACCTACTTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCAGTTACCTTGACGACAGTGCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACTTACCCCTTCCCCCAGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAGC
CATTTGCCACACCCGTTTGTGTTACAGCTGAACCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCCTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGTTTGGTGCCAGCCCCCTTCACTCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATCACCATCCCCATGGTACTGATGCTTGTGATTAGGGAGGGCATTITGCTACCAAGCCTCTTCCCAACGC
CCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1742B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAAGGTCAGCGGAGCCCCAGCAGGAAGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGG
AGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCGCGGCGGCGGCGGCTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGCGACCCCTCCCCGCTACTGACTTCTCCTATAAGCGCTTCTCTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1743

MTNCLSFNRGRGLALLCALLGTLCTGSGQIRYSVSEELDKGSFVGNIANDLGLEPRELAERGVRIVSRGRTQLF
SLNPQSGSLVTAERIDREELCAQIPLCLVKINILVEDKLKIFEVEIEIKDINDNAPNFPTEELEIKIGELTVPGT
RFPIKTAFDPDVGINSLONYKLSNDYFSLAVNSVSEGAKEPVLERALDREKKEIHQLVLVASDGGDPVHSGN
LHIQVIVLDANDNPPMFTQPEYRVSVWENVPVGTRLLTVNATDPDEGFNAQVS YILDKMPGKIAEIFHLNSVSGE
VSILKSLDYEDAMFYEIKIEAQDGPGLLSRAKILVTVLVDVNDNAPEITITSLTSSVPEEGTVGREIALIDVHDRD
SGQNGQVEVFVLGNLPFKLEKSIDQYYRLVTATSLDREQISEYNISLRASDGGSPPLSTETHITLHVIDINDNPP
TFPHLSYSAYIPENNPRGASIFSVTAQDPDSNNNARITYALTEDTLQGAPLSSFSVINSNTGVLYALRSFDYEQF
RDLKLLVTASDSGNPPLSSNVSLNLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVVAVD RDSGQ
NAWLSYRLLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTTLTVAVADRIPDILADL
GSLEPSAKPNDSDLTLYLVVAVAAVSCVFLAFVIVLLALRLRRWHKSRLQLASGGGLASTPGSHFVGADGVRAFL
QTYSHVSLTADSRKSHLIFPQPNYADTLISQESCEKSEPLITQDLLEMKGDSNLLQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1744A

ATGGCGGCGCCTCCTGCTCGCCCAGACCACACCCGGCTGCTCCAGATCTGCCTTCTCCTGGGGGTTCCTGGTGGAA
ATCAGGGCCGAACAGATTCTCTACTCGGTGTTTGAGGAGCAGGAAGAAGGCTCAGTGGTGGGCAACATCGCCAAG
GACCTGGGGTTGGCGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTTC
GCCCTGAACCCGCGCAGCGGCACCTTGGTCACCGCGGGTAGGATAGACAGGGAGGAGCTCTGCACAGATCTCCA
AACTGTGTGACAAACCTGGAGATTCTCTAGAAGATACAGTGAAGATTTTGGGGTAGAGGTGGAAATAATCGAT
GTTAATGATAACCCACCCAGTTTTTGGGACAGAACAGAGGAAATAAAAGTTGCTGAAAATGAAAATCCTGGGGCA
AGATTTCTCTTCTGAAGCTTTTGATCCGGATGTAGGTGTAAACTCCCTGCAGGGTTACCACTCAACTCAAAC
GGTTACTTTTCCCTGGACGTGCAAAGTGGGGCCGATGGGATTAAGTACCCAGAGCTGGTGTGGAACCGCTCTA
GATCGCGAGGAAGAGGCGGTTCACCACCTCGTTCTCACGGCCTTCGATGGAGGTGACCCGGTTCGCTCTGGCACT
GCCAGGATTCTCATAACTTGTGGATACCAACGATAATGCTCCCGTGTTCAGTGGAGGTGACCCGAGTACCACGTAAGT
GTTCTGTGAGAACGTTCTGTAGGCACTCGGCTACTCACCGTAAAAGCCACTGATCCAGATGAAGGAGCCAATGGA
GACGTGACGTATTCTTTCCGGAAGTAAGAGACAAAATATCACAGCTATTTCAAGTTGAATTCTCTGAGTGGGGAT
ATAACAATATTGGGGGGTCTAGATTATGAGGACTCTGGATTCTATGACATAGATGTAGAAGCCATGATGGGCCT
GGTCTCCGAGCTAGAAGCAAGGTACTGGTGACAGTTCTGGATGAAAATGACAACGCACCAGAAAGTACAGTTACA
TCTCTACCACTCAGTCCAGGAATCTTCTTCCCGGGTACAGTAATTGCACTTTCAACGTGCATGACAGTGAC
TCAGGAGGAAATGGCCTAGTCACATGTTCTATTCCAGATAATCTGCCATTACACTTGAAAAGACCTATGGAAT
TATTATCGGTTGTTGACACACAGAACTGGACAGGGAAGAAGTCTCAGAATATAACATCACTGTAAGTGGCACT
GACCAGGGAACCTCTCCACTGTCTACAGAACTCATATTTCACTGCAAGTGATGGACATCAATGACAACCCACCC
ACTTTCCCTCATGCTTCTACTCTGCTTACATTCTGAAAACAACCCAGAGGAGCCTCCATCTTATCTATGACT
GCTCAAGACCCCTGACAGTGGTGACAATGCCCGAATCACTTACTCCCTGGCCGAGACACCTTCCAGGGTGCACCT
CTGTCTCCTATGTCTCCATCAACTCCAATACAGGGATCCTATATGCTCTTTGCTCCTTCGACTATGAGCAGTTT
AGAGACCTGCAGCTGCTGATGACAGCCAGTGACAGTGGAGACCCCTCCACTCAGCAGCAATGTGTCACTGAGCCTC
TTTGTGCTGGACCAAGACAATGTCCCTGAGATCCTGTACCCACCTTCCCTACTGATGGCTCCACTGGTGTG
GAGTGGCACCCCGCTCCGAGATTCCGGCTACCTGGTGACCAAAGTGGTGGCAGTGGACAGAGACTCAGGTGAG
AATGCTGGCTGTCTCACTCAAGTCCAGCAGCGCGGACTATTTGAGTGGGGCTGCACACAGGCGAG
GTGCGCACCGCAGCGGCCCTGTGGACAGAGACGCGCTCAAGCAGAGGCTTGTAGTGGTGTGTCAGGACCATGGC
CAGCCCCCTCTCTCGGCCACCGTCACACTCACTGTGGCTGTGGCCGACAGCATCCAGATGTCTGGCTGACTTG
GGCAGCCTCAAGCCTTCAGCAGACCCAGACGACTCGGGCCTCACACTCTATCTCGTGGTGGCAGTGGCCGCTGTC
TCCTGCGTCTTCTGGCTTTTGTACGGTGTGCTAGCACTCAAGCTGAGACGCTGGCACAAGTACGCCTGCTT
CACGCTGAAGGCAGCAGGTTGGCAGGTGTGCTGCTCGCACTTTGTGGGCGTGGACGGGGTTCCGGCTTCTCTG
CAGACCTATTCCACAGAGGTCTCCCTACCGCGGACTCGCGGAAGAGTCACCTGATCTTCTCCCAACCCAGCTAT
GCAGACACGCTCATCAGCCGGGAGAGTTGTGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAACA
AAAGGAGACCCTAATCTTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGTGCCGGCACCATGGGATTGAGC
GCCCCGTACGGACCCCAAGTTACCCCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAGTGC
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCAACCCAGCCAGCTT
CTCCTTACCTGCACCCAGGCCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGGCAGTCAAGCCTACCCCTTCCCCCAGGGGGTTGAATATGAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTGTAGTACAGCTGAATCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCTCC
CTCCTCCCCACCCCACTCCAACAGTTCTCTTCCCCAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCTTACCTCCTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTTTGTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTATTGTTTACGTTTCCACTGCATGCCTTGACTTCCCCACCTCTCTCT
CAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGG

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FIGURE 1744B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTtaggaccaggtccccTTGAGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCCCACCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1745

MAAPPARPDHTRLLQICLLLGVLVEIRAEQILYSVFEEQEEGSSVVGNI AKDLGLAPRELAERGVRI VSRGRTQLF
ALNPRSGTLV TAGRIDREELCDRSPNCVTNLEILLED TVKILRVEVEIIDVNDNPPSFGTEQREIKVAENENPGA
RFPLPEAFDPDVG VNSLQGYQLNSNGYFSLDVQSGADGIKYPELV LERALDREEEAVHHLVLTAFDGGDPVRS GT
ARILIIILVD TNDNAPVFTQPEYHVS VRENVFVGTRLLTVKATDPDEGANGDV TYSFRKVRDKISQLFQLNSLSGD
ITILGGLDYEDSGFYDIDVEAHDGPGLRARSKVLVTVLDENDNAPEVTVTSLTSSVQESSSPGT VIALFNVHDS D
SGGNGLVTC SIPDNL PFTLEKTYGNYRLLTHRTL DREEVSEYNITVTATDQGT PPLSTETHISLQVMDINDNPP
TFPHASYSAYIPENNPRGAS ILSMTAQDPD SGDNARITYSLAEDTFQGAPLSSYVSINSNTGILYALCSFDYEQF
RDLQLLMTASDSGDPPLSSNVSLSLFVLDQNDNVPEILYPTFP TDGSTGVELAPRSADSGYLVTKVAVDRDSGQ
NAWLSY SLLKSSEPGLFAVGLHTGEVRTARALLDRDALKQRLVVVVQDHGQPPLSATVTLTVAVADSIPDVLADL
GSLKPSADPDDSGLTLYLVVAVAAVSCVFLAFVTVLLALKLRRWHKSRL LHAEGSRLAGVPASHFVGVDGVR AFL
QTYSHVSLTADSRKSHLIFSQPSYADTLISRECEKSEPLLI TQDLLETKGDPNLQQAPPNTDWRF SQAQRPGT
SGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGS STLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNNGKKKSGKKEKK

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FIGURE 1746A

ATGGCGAGTCCACCTAGGGGCTGGGGCTGCGGAGAGCTGCTGCTGCCCTTCATGCTCCTGGGGACGCTGTGCGAG
CCAGGATCCGGGCAGATCCGCTACTCGATGCCGGAGGAGCTGGACAAAGGCTCCTTCGTCGGCAACATAGCCAAAG
GACCTTGGGGCTGGAGCCCCAGGAGCTGGCGGAGCGCGGAGTCCGCATCGTCTCCAGAGGTAGGACGCAGCTTTT
GCCCTGAACCCGCGAAGCGGCAGCTTGGTCACCGCGGGCAGGATAGACCGGGAGGAGCTCTGCGCTCAGAGCCCA
CTGTGTGTGGTGAACCTTTAACATCTTGGTTGAGAACAAAATGAAAATTTATGGAGTAGAAGTAGAAAATAATCGAT
ATTAATGATAACTTCCCGCGTTTCCGGGATGAAGAGTTAAAAGTAAAAGTTAATGAAAATGCGGCTGCAGGGACA
CGGTTAGTGCTTCCCTTCGCGCGGGATGCGGATGTGGGTGTGAACCTCTCTCCGGAGTTACCAGCTCAGCTCCAAT
CTGCACTTCTCTCTGGATGTGGTAAGCGGAACTGATGGACAAAAGTATCCGGAGCTGGTGTGGAACAGCCCCTA
GACCGCGAGAAAAGAGACTGTTACAGACCTCCTCCTCACAGCTTTAGATGGCGGAGACCCGGTACTCTCCGGCACC
ACGCACATCCGTGTACGGTCTCGACGCAAAACGACAATGCGCCCTGTTACCCCATCCGAGTACAGCGTGAGT
GTTCCAGAGAACATACCTGTGGGCACTCGGCTGCTCATGCTAACCGCCACGGATCCAGATGAGGGAATAAACGGG
AAATTGACCTACTCTTTTCGCAATGAAGAAGAAAAAATTTCCGAGACTTTCCAACCTGATTCCAACCTGGGGGAA
ATCTCAACTCTACAATCACTGGACTATGAAGAATCCAGATTCTACCTCATGGAAGTGGTAGCTCAGGATGGAGGC
GCTCTTGTGGCAGCGCTAAGGTGGTGGTCACAGTACAGGACGTGAATGACAATGCCCCGAAGTGATCCTCACC
TCTCTGACCACTTCGATCTCTGAAGACTGTCTTCCCGGAAGTGAATCGCGCTGTTTAGCGTACATGATGGTGAT
TCTGGAGAAAATGGTGAGATTGCATGCTCTATTCTAGGAATTTGCCCTTTTAAATTTGAGAGAAGTCAGTTGATAAT
TACTATCACCTATTAACAACCTAGGGACCTGGACAGAGAAGAGACTTCAGATTATAATATCACTTTAACCGTCATG
GACCATGGAACCCCGCCCCCTCTCTACAGAAAGCCACATCCCCTTGAAAGTAGCAGACGTTAATGACAACCCACCC
AATTTCCCTCAAGCCTCCTACTCCACCTCTGTACAGAAAACAATCCAGAGGTGTCTCTATCTTCTCTGTGACA
GCCCATGACCCCGACAGCGGCGACAACGCTCGAGTCACCTACTCCCTGGCTGAAGACACATTTACAGGGGCGCCC
TTGTCTCTCTATGTATCCATTAACCTCTGACACCGGTGTCTGTATGCTCTGAGATCCTTCGACTATGAGCAGTTG
AGAGACCTACAGTTGTGGGTGACAGCCAGCGACAGTGGGAACCTCCACTTAGCAGCAACGTGTCTGCTGAGCCTG
TTTGTGCTGGACAGAACGACAATACGCCTGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACGGGCGTG
GAGCTGGCCCTCGCTCCGCGAAGCCTGGCTACCTGGTGACCAAGGTGGTAGCGGTGGACAAAGATTACAGCCAG
AACGCCTGGCTGTCTACCGCTGCTTAAGGCCAGCGAGCCAGGACTCTTTGCGGTGGGCTGCACACGGGCGAG
GTGCGCACAGCGGAGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTCGTGGTGGCGCTCGAAGACCATGGC
CAGCCCCCTCTGTACGCCACCTTACGGTCACCGTTGCCGTGGCCGACAGGATCCCTGACATCCTGGCTGACCTA
GGCAGTATCAAGACCCCATTTAGCCCTGAGGATCTGGACCTCACACTCTATCTTGTGGTGGCAGTGGCTGCAGTC
TCCTGCGTCTTCTGGCCTTCGTCTATCGTGCTGTGGTGTCTCAGACTGAGGCGCTGGCACAAGTCACGCCTGCTT
CAGGCTGAAGGCAGCAGGTTGGCGGGTGTGCCCGCTCGCACTTTGTGGGCGTGGATGGGGTTTCGGGCTTTCTCTG
CAGACCTATTTCCACGAGGTCTCCCTCACCGCGGACTCGAGGAAGAGTCACCTGATCTTTCCCCAGCCCAACTAC
GCAGACACGCTCCTTAGTGAAGAGAGCTGTGAGAAAAGCGAGCCTCTTCTGATGTCTGATAAGGTAGATGCAAAAC
AAAGAAGAACGCGAGTTTCAGCAAGCCCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCACAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCCAACCAACAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGTGGCGGCACCATGGGATTGAGC
GCCCCTACGGACCCCACTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCACAGGGCGGCCTCTCCCCAACAGGCCAGCTT
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACAGGCCAGCTT
CTCCTTACCTGCACCCAGGCCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAAACCCCATCCAATCAACTGCTGTACCATAGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTAGTTACAGCTGAACCTCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCTCC
CTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCATGGTACTGATGCTTGCTGGATTTAGGGAGGGCATTTTGGTACCAAGCCTCTTCCCAACGCCCT
GGGGACAGTCTTCTGTTTTGTTTTTCATTGTTTACGTTTTCCACTGCATGCCTTGACTTCCCCACCTCTCCT
CAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1746B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGAGGGAGGC
AGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCC
TCCTGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTCCGTGAAGGCCACTGCCAGGTCCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTT
CTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGGCGGGCTCCGCGCAGCCGCTGTCTTGATCTGCCGCGGGCGGCCCGTGTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCCTCTTCTGTGTCTCACGCAAGTTTTATACCTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1747

MASPPRGWGCCELLLPFMLLGTLCFPGSGQIRYSMPPEELDKGSFVGNIAKDLGLEPQELAERGVRIVSRGRTQLF
ALNPRSGSLVTAGRIDREELCAQSPLCVVNFNILVENKMKIYGVEVEIIDINDNFPRFRDEELKVKVNENAAAGT
RLVLPFARDADVGVNSLRSYQLSSNLHFSLDVVSMTDQKYPELVLEQPLDREKETVHDLTALDGGDPVLSGT
THIRVTVLDANDNAPLFTFSEYSVSVPENIPVGTRLLMLTATDPDEGINGKLTYSFRNEEEKISETFQLDSNLGE
ISTLQSLDYEEESRFYLMVVAQDGGALVASAKVVVTVDVNDNAPEVILTSLTSSISEDCLPGTVIALFSVHDGD
SGENGEIACSI PRNLFPFKLEKSVNYYHLLTTRDLREETS DYNITLTVMDHGT PPLSTESHIPK VADVNDNPP
NFPQASYSTSVTENNPRGVSIFSVTAHDPDSGDNARVTYSLAEDTFQGAPLSSYVSINSDTGVLYALRSFDYEQ
RDLQLWVTASDSGNPPLSSNVSLFVLDQNDNTPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDKDSGQ
NAWLSYRLLKASEPGLFAVGLHTGEVRTARALLDRDALKQSLVVAVEDHGPPLSATFTVTVAADRIDILADL
GSIKTPIDPEDLDLTLYLVVAVAAVSCVFLAFVIVLLVLRRLRRWHKSRLQAEGSRLAGVPASHFVGVDGVRAFL
QTYSHEVSLTADSRKSHLIFPQPNYADTLLSEESCEKSEPLLMSDKVDANKEERRVQQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1748A

ATGGCGCCTCCGCAGAGGCATCCGCAGCGCAGCGAGCAGGTCTGCTCCTCACGCTCCTGGGGACGCTGTGGGGG
GCCGCGGCAGCGCAGATCCGCTACTCTATTCCCGAGGAGCTGGAGAAAGGCTCCTTCGTAGGCAACATCGTCAAG
GATCTGGGACTGGAGCCCCAGGAGTTGGCGGAGCACGGAGTCCGCATCGTCTCCAGAGGTAGGATGCAGCTTTTC
TCTCTGAATCCGCGAAACGGCAGCTTGGTCACCGCGGGTAGGATAGACCGCGAGGAGCTCTGTGCTCAGAGCCCG
CGGTGTCTGGTGAGTTTTAAACATCCTTGTCGAGGATAAACTGAATCTTTATCCCGTGAAGTGGAATAGTGGAC
ATTAATGACAATACACCCCGATTCTTAAAGGAAGAATTGGAAGTGAAAATTCCTCGAAAACGCAGCTCCATCCTCT
CGTTTTCCACTAATGGAGGTCTATGACCCTGATGTGGGAATGAACTCCCTTCAGGGATTAAAGCTCAGTGGTAAT
AGTCACTTCTCAGTGGACGTGCAAAGCGAAGCCCATGGGCCAAAGTACCCGGAGCTGGTGCTGGAGGGCACACTG
GACCGGAAGGAGAAGCCGTTTACCGCCTGGTCCCTACTGCCATGGATGGCGGCGACCCCTGTCCGCTCAAGCGTC
GCCCCAATTCTGGTAACAGTTCTAGATGTGAATGACAACACTCCAATGTTTACTCAGCCTGTCTACCGTGTAAGT
GTTCTGAAAACCTGCCAGTAGGCACACCAAGTGTGGCAGTGACTGCCACCGACCAAGGATGAAGGAGTCCACGGG
GAAGTAACCTTATTCCTTTGTGAAGATTACAGAAAAGATCTCAGAAAATTTCTGTTGAATGTTTTGACTGGAGAA
ATTTCACTTCTGCAAATCTAGACTATGAGGACTCGAGTTTTTATGAGCTGGGTGTGAAGCCCGGGATGGGCCA
GGTCTTCGAGACAGAGCGAAAGTCTTAATAACTATCTTGGATGTCAATGATAATGTACCAGAAGTGGTTGTTACA
TCTGGAAGCAGAACAATTGCTGAAAGTGCACCTCCAGGAACAGTAATCGCCCTTTTCAAGTGTTTCGATCGAGAC
TCTGGCCTGAATGGCCTGGTAACCTGTTCCATCCCGAGAAGTCTCCCATTTGAATTGGAAAAATCAGTTGGCAAT
TATTATCGATTAGTGACAAATGCAGCTCTAGACCGGGAAGAGGTATTCTTGTACACATCACTGTGACAGCCACG
GACAAAGGAACACCACCTCTGTCTACAGAAACAATCATCTCTCTAAATGTGGCAGACACCAACGACAACCCGCC
ACCTTCCCCCATTATCTCTACTCAGTCTATGTCTTGAAAACAACCCAGGGGTGCCTCCATCTTCTGTGAAT
GCACTGGACCCCTGACGTGGACCAAGCGCCCAAGTCTCCTACTCACTGGCAGAAAGACCCCTCCAGGGGGCGCC
CTGTCTCTACGTGTCCATCAACTCCGACACTGGGATTCTGTACGCCCTGCGCTCCTTCGACTATGAGCAGTTG
AGAGACCTACAGCTGTGGGTGACAGCCAGCGCAGCGGGGACCCGCTCTTAGCAGCAACGTGTCACTGAGCCTG
TTTGTGCTGGACCAGATGACAATGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCTGCGGTG
GAGCTGGCGCCCCGCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAG
AACGCTGGCTGTCTACCGCTGTCTCAAGGCCAGCGAGCCAGGACTTTTCTCAGTGGGCCTGCACACGGGCGAG
GTGCGCAGGGCGCGCCCTGCTGGACAGAGACGCGCTCAAGCAGAGCCTAGTGGTGGCCGTCCAGGACCACGGC
CAGCCCCCTCTCTCCGCCACTGTACGCTCACCCTGGCCGTGGCCGACAGGATCCCGACATCTGGCCGACCTG
GGCAGCCTCGAGCCCTCCGCCAAACCAACGATTCCGACCTCACTCTGTACCTGGTGGTGGCGGTGGCCGCGGT
TCCTGCGTCTTCTGGCCCTTCGTATCGTGTCTGTCGCTGAGACTGCAGCGCTGGCACAAGTCACGCCTGCTG
CAGGCTTCGGGAGGTGGCTTAGCGAGCATGCCCGCTCGCACTTGTGGCGGTGGAAGGGGTTCCGGCTTCTCTG
CAGACCTATTCCACGAGGTCTCACTCACTGCAGACTCGCGTAAGAGTCATCTGATTTCCCCAGCCCAACTAT
GCCGACAGCTTATCAACCAGGAGAGCTATGAGAAAAGCGAGCCTCTTCTGATAACTCAGGATTTACTTGAAACG
AAAGGAGAACCCAGGCAACTTCAGCAAGCCCCGCCAACACGAGTGGCGTTTCTCTCAGGCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCAGTTACCCCTGCAGCAGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCACAGGTTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCAAGAATACTGGTAGGGCCAGGCCATGC
TCCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCATCTTCCAAATCAATCAGGCCATCCATCCCATGCC
CATTGGCCACACCCGTTTAGTTACAGCTGACTCCTCCATCTTCCAAATCAATCAGGCCATCCATCCCATGCC
TCCCTCCTCCCCACCCACTCCAACAGTTCTCTTCCCGAGTAAGGTGGTGGGGTGTGAAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACA
TGATACCATCCCATGGTACTGATGCTTGTGGATTAGGAGGGCATTGTGCTACCAAGCCTCTTCCCAACGC
CCTGGGAGCAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1748B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAAGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCTCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCCACCCC
CTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGGGCGGGCTCCGCGCAGCCGCTGTCCTTGATCTGCCGCGGGCGGGCCCGTGTTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTTCTCTATAAGCGTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAA
AAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1749

MAPPQRHPQRSEQVLLLTLLGTLWGAAAAQIRYSIPEELEKGSFVGNIVKDLGLEPQELAEHGVRIVSRGRMQLF
SLNPRNGSLVTAGRIDREELCAQSPRCLVSFNILVEDKLNLYPVEVEIVDINDNTPRFLKEELEVKILENAAPSS
RFPLMEVYDPDVGMSLQGFKLSGNSHFSVDVQSEAHGPKYPELVLEGLDREGEAVYRLVLTAMDGGDPVRSSV
AQILVTVLDVNDNTPMFTQPVYRVSPENLPVGTPLAVTATDQDEGVHGEVTYSFVKITEKISQIFCLNVLIGE
ISTSANLDYEDSSFYELGVEARDGPGLRDRAKVLITILDVNDNVPEVVVTSGSRTIAESAPPGTVIALFQVFD RD
SGLNGLVTC SIPRSLPFELEKSVGNYYRLVTNAALDREEVFLYNITVTATDKGTPPLSTETIISLNVADTNDNPP
TFPHSSYSVYVLENNPRGASIFSVNALDPDQNAQVSYSLAEDTLQGAFLSSYVSINS DTGILYALRSFDYEQ L
RDLQLWVTASDSGDPPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADRIPDILADL
GSLEPSAKPNDSDLTLYLVVAVAAVSCVFLAFVIVLLALRLQRWHKSRLQASGGGLASMPGSHFVGVEGVRAFL
QTYSHEVSLTADSRKSHLIFPQPNYADTLINQESYEKSEPLLITQDLLETKGEPRLQQA PPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1750A

ATGGCGGCTCAGCCGAGGGGCGGGGACTACAGAGGATTCTTCTGCTCTCCATCCTCTGCGGGACCCCTGGGAA
GCCTGGGCAGGACGTATTCTCTACTCCGTGTCGGAGGAGACGGACAAAGGGTCCTTTGTGGGAGACATCGCCAAG
GACCTGGGGCTGGAGCCCCGGGAGCTGGCGGAGCGCGGAGTCCGCATCATCTCCAGAGGTAGGACGCAGCTTTTC
GCCCTGAACCAGCGCAGCGGCAGCTTGGTCACTGCGGGCAGGATAGACCGGGAAGAGATCTGCCTCAGAGTGGC
CGGTGTCTGGTAACTTTAACATCCTGATGGAAGATAAAATGAATCTTTACCTATAGACGTGGAAATAATAGAT
ATTAATGACAACGTTTCCAAGATTCTTGACGGAAGAAATAAATGTAAAAATAATGGAGAATACAGCTCCTGGGGTT
CGGTTTCCGTTAAGCGAGGCTGGGGATCCAGATGTGGGCACGAACTCCCTCCAGAGTTACCAGCTCAGCCCCAAT
CGCCACTTCTCCCTGGCTGTGCAAAGTGGAGACGATGAACTAAGTACCCGGAAGTGGTGCTGGAGCGGGTGCTG
GACCGGGAGGAAGAGCGGGTTACCCACCTGGTCTCACAGCCTCTGATGGCGGCGACCCGCCCGGATCCAGCACC
GCCCACATCCAGGTGACAGTGGTGGATGTGAATGACCACACGCCGTCTTCTCTGCTCAGTACCAAGTAAC
GTCCCCGAGAATGTGCCAGTGGGTACAAGACTGCTCACGGTACATGCTATCGACCTGGACGAGGGAGTCAATGGG
GAAGTGACATATTCTTTTCGGAATAAATCCTAAACTTCCAAAGATGTTTCATCTGAACTCGCTTACAGGAGAA
ATATCACTTTAGAAGGATTAGATTATGAAGAACTGCCTTCTATGAAATGGAGGTTTCAAGGCTCAAGATGGTCT
GGTAGTCTGACAAAGGCAAAAGTACTGATCACAGTTTTAGATGTAAATGATAATGCTCCAGAAGTGACTATGACG
TCTTTAAGTAGCTCAATCCCTGAAGACACCTCTTGGGACAGTCATTGCTCTTTTCTACCTACAAGACAGAGAT
TCTGGAAAGAATGGTGAGGTGACCTGCACCATTCAGAAAACCTACCTTTTAAATTAGAAAAATCAATAGATAAT
TATTATAGATTGGTCACAACCAAAAACCTTGGACCGGGAAACACTCTCTTTGTATAACATCACACTGAAAGCCACA
GATGGTGGAACTCCTCCCTTGTCCAGGGAACTCACATATTGATGAGGTGGCAGACACCAACGATAACCCACCC
ACCTTCCCCCACTCATCTACTCAGTCTACATCGCTGAGAACACCCAGAGGGGCTCCATTTTCTTAGTGACT
GCACAGGACCACGACAGTGAGGATAATGCCAGATCACTTATCTCTGGCCGAAGACACCATCCAGGGGGCTCCA
GTGTCTCCTATGTCTCCATAAATCTGACACTGGAGTCTGTACGCGCTGCAATCCTTTGATTATGAGCAGTTG
AGAGAACTACAATAAGAGTGACTGCACATGACAGCGGGGACCCGCTCTCAGCAGCAACATGTCACTGAGCCTG
TTCGTGCTGGACAGAATGACAACCCGCCGAGATCCTGTACCCGGCCCTCCCCACAGATGGTTCTACTGGCATG
GAGCTGGCACCCCGCTCCGCAGAGCCCGGTACCTGGTGACCAAGGTGGTGGCGGTGGACAAAGATTCAAGGCCAG
AACGCCGTGGCTGTACATCTCCTGCTTAAGGCCAGCGAGCCAGGACTCTTTGCGGTGGGGCTGTACAGGGCGAG
GTGCGCACGGCTCGGGCCCTGCTGGACAGAGATGCCCTCAAGCAGAGCCTCGTGGTGGCCGTCCAGGACCACGGT
CAGCCTCCTCTGTACGCCACCGTCACACTACCGTGGCTGTGGCTGACAGCATCCCCGAAGTCTTGGCCGACCTG
GGCAGCCTTGAGCCCTCCGACGGTCTTACAATATGACCTCACGTTGTACCTGGTGGTGGCGGTGGCCACAGTC
TCCTGCGTCTTCTAGCCTTCGTCTCGTACTGCTGGCGCTCAGGCTGCGGCGCTGGCACAAGTCACGCCTGCTG
CAGGCTTCAGAAGGTGGCTTGGCGAACGTGCCACCTCGCACTTTGTGGGCATGGACGGGGTGCAGGCTTTCCTG
CAGACCTATTCCTATGAGGTCTCCCTCACCGCGGACTCTCGGAAGAGTCACCTGATCTTCCCCAGCCCCAATAT
GTAGACATGCTCATCAGCCAGGAGAGCTGTGAGAAAAATGATTCTTTGCTAACATCCGTAGATTTTCAGGAATGT
AAAGAAAACCTGCCAAGTATTCAGCAAGCCCCGCCAACACGAGTGGCGTTTCTCTCAGGCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTG
AGCGCCCGCTACGGACCCAGTTACCTTGACGACGTCGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGC
AATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCACAGGGCGGCTCTCCCCAACAGCCAG
TCGGGCAAGAAGGAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACAGCCAG
CTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCAAGAATACTGGTAGGGGCCAAGGCCATGC
TCCCTTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATAAGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCACTGCTGTACCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAG
CATTTGCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACA
TGATACCATCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTGTGCTACCAAGCCTCTTCCCAACGC
CCTGGGGACAGTCTTCTGTTTTGTTTTTCAITGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATG

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FIGURE 1750B

TGGATGGTGGGGGCATGGACAAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTGAGAGGGGCCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTG
CCCTCCTGAAGCCTCAGTCCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCC
CTTCTGCCCTGGGTCCCCGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGC
AGCGGGCGCGGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1751

MAAQPRGGDYRGFFLLSILLGTPWEAWAGRILYSVSEETDKGSFVGDI AKDLGLEPRELAERGVRIISRGRTQLF
ALNQRSGSLVTAGRIDREEICAQSARCLVNFNILMEDKMNLYPIDVEIIDINDNVPRFLTEEINVKIMENTAPGV
RFPLSEAGDPDVGTNSLQSYQLSPNRHFS LAVQSGDDETKYPELVLERVLDREEERVHHLVLTASDGGDPPRSST
AHIQVTVVDVNDHTPVFSLPQYQVTPENVPVGTRLLTVHAIDLDEGVNGEVTYSFRKITPKLPKMFHLNSLTGE
ISTLEGLDYEETAFYEMEVQAQDGPGLTKAKVLITVLDVNDNAPEVTMTSLSSSIPEDTPLGTVIALFYLQDRD
SGKNGEVTCTIPENLPFKLEKSIDNYRVLVTTKNLDRETLSLYNITLKATDGGTPPLSRETHIFMQVADTNDNPP
TFPHSSYSVYIAENNPRGASIFLVTAQDHDSEDNAQITYSLAEDTIQGAPVSSYVSINSDTGVLIALQSF DYEQL
RELQLRVTAHDSGDPPLSSNMSLSL FVLDQNDNPPEILYPALPTDGSTGMELAPRSAEPGYLVTKVVAVDKDSGQ
NAWLSYLLLKASEPGLFAVGlyTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLADL
GSLEPSDGPYNYDLTLYLVVAVATVSCVFLAFVLVLLALRLRRWHKSRL LQASEGGLANVPTSHFVGMDGVQAF L
QTYSHEVSLTADSRKSHLIFPQPNYVDMLISQESCEKNDSLLTSVDFQECKENLP SIQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGS
NATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1752A

ATGGCAGCTCCAAACCAATGCCAGCTCCGCGGAAGATTAGTCCTGCTATGCTCGCTCCTGGGGATGCTATGGGAG
GCCAGGGCCAGTCAGATTGCTACTCAGTGCCTGAAGAGACAGAAAAGGGCTATATTGTGGGCAACATCTCCAAG
GACCTGGCTCTGGAGCCCCGGGAGCTGGCGGAGCGCCGAGTCCGCATCGTCTCTAGAGGTAGGACGCAGCTTTTC
TCTCTGAACCCGCGCAGCGGCACCTTGGTCACCGCGGGTAGGATAGACCGGGAGGAGCTCTGTGCTCAGAGCCCG
CGGTGTCTGGTGAACCTTTAAAGTCCTGGTTGAAGACAGAGTGAAGTGTACGGAATAGAAATAGAAGTAACTGAT
ATTAACGACAGCGCCCCAAAGTTCAGGCCGAAAGTCTGGAAGTAAAAATTAACGAAATCGCGGTTCTCTGGAGCA
CGTTATCCACTTCCAGAAGCTATTGATCCGGATGTTGGCGTGAAGTCCCTCCAGAGCTACCAGCTCAGCCCCAAT
CACCATTCTCCCTGAACGTGCAGACTGGAGACAATGGAGCCATAAACCAGAGCTGGTGCTGGAGCGCGCCCTG
GACAGGGAGGAGGCAACTGCCACCACCTGGTCCCTACGGCCTCGGATGGCGGCGAGCCGCTCGCTCCAGCACA
GTGCGCATCCATGTGACAGTGTGGATACAAATGATAATGCCCGGTTTTTGCTCAACGGATTTACCGAGTTAAA
GTCTTTGAGAACGTGCCCCCAGGCACCTGGCTGCTTACTGCAACAGCCAGCGACCTGGATGAGGGAATCAACGGA
AAAGTGGCATACAAATCTGGAAAATTAATGAAAAACAATCTCTGCTATTCCAGCTTAATGAAAATACTGGGGAA
ATATCAACAGCAAAAAGTCTAGATTATGAAGAATGTTTATTTTATGAAATGGAATACAGCTGAAGATGGTGGG
GGATTGAAAGGGTGGACAAAAGTGTCTATTTCCGTGGAAGATGTAATGACAATAGACCTGAAGTGACCATTACA
TCTCTGTTTAGCCAGTGAGAGAAGACGCACCTCAGGGAACAGTAATTCTTCTTTTCAATGCTCATGACCGAGAC
TCCGGGAAGAATGGTCAAGTTGTCTGTTCTATCCAGGAGAATCTATCTTTTACATTAGAAAATTCAGAAGAAGAT
TATTACAGATTGTTGACGGCCCCAAATCTTGACCGAGAAAAAGCCTCAGAATATAATATCACGGTGACTGCAACA
GACAGAGGAATCCGCCCTGTCCACAGAAATTCACATCACCTGCAAGTGACTGACATCAATGATAATCCACCT
GCTTTCTCTCAAGCCTCCTACTCAGTCTACCTCCCGGAAAACAACGCCAGAGGTACTTCCATCTTCTCCGTGATT
GCCTATGACCCTGATAGCAATGAGAATTCTAGAGTTATTTACTCCTTGGCAGAGGATACCATCCAAGGGTCTCCT
CTCTCCACCTATGTCTCTATTAACTCAGACACTGGTGTGCTGTATGCTCTGTGCTCCTTTGACTATGAGCAGTTT
AGAGATTTGCAAATGCAGGTGACGGCAAGTGACAGTGAAGCCCACCACTTAGCAGCAATGTGTCTATTGAGACTG
TTTGTGTTGGACCAGAATGACAATGCCCCAGAAATCCTGTACCCTGCCCTCCCCACTGATGGTTCTACTGGTGTG
GAGCTGGCACCCCGCTCTGCAGAGCCTGGCTACCTGGTGACCAAGGTGGTGGCAGTGGACAGAGACTCAGGCCAG
AATGCTTGGCTCTCCTACCGCCTATTCAAGGCCAGTGAGCCAGGGCTCTTCTCGGTGGGGCTGCACACAGGTGAA
GTGCGCACAGCTCGGGCCCTGCTAGATAGAGATGCGCTCAAACAGAGCCTTGTGGTGGCTGTACAGGACCATGGC
CAGCCCCCTCTCTCGGCCACTGTACGCTCACAGTAGCCATAGCTGACAGCATCCAGACATCCTGGCTGACCTG
GGCAGTCTTCAGATCCCTGCAGACCTGGAGGCCTCAGACCTTACCCTCTACCTCGTTGTGGCTGTGGCAGTCTGTC
TCCTGTGTCTTCTCACCTTCGTTATCACGCTGCTGGCCCTCAGGCTGAGGCACTGGCACTCCTCGCATCTGCTG
CGGGCTACCAGTGATGGGTTGGCTGGTGTGCCACCTCACACTTTGTGGGTGTAGATGGGGTTCGAGCTTTCCTA
CAGACCTATTCTCAGGAGTTCTCCCTCACCGCTGACTCAAGGAAGAGTCACCTGATCTTCCCCAGCCCACTAT
GCAGACACACTCATCAGCCAGCAGAGCTGTGAGAAAAATGAGCCTTTGTGCGTCTCTGTGATTCCAAGTTTCCT
ATAGAAGACACCCCTTTGGTTCCGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGC
ACCAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCC
ATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATTGGGATTG
AGCGCCCGCTACGGACCCAGTTACCCCTGCAGCAGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGC
AATGCCCACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAG
TCGGGCAAGAAGGAGAAGAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCAG
CTTCTCTTACCTGCACCCAGCCCTCAGAGTTTACGGGCTAACCCCAAGAATACCTGGTAGGGGCCAAGGCCATGC
TCCCTTTGGGAAACAGAAACAAGTGCCAGTCAAGCACTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGC
AGTTCCGCTGGGAACCCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAAGC
CATTGTCACACCCCGTTTAGTTACAGCTGAAGTCTCTCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCC
TCCCTCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAAC
CTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCC
CCCAAAGCATGGTTTGGTGCCAGCCCTTACCTCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACA
TGATCACCATCCCATGGTACTGATGCTTGCTGGATTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGC
CCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCT
CCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATG

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FIGURE 1752B

TGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAG
GGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGC
TCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCT
CGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCC
ACTGGTGGAAAGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGA
GGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTG
CCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAG
TGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTCATAGACCTTCTTCTCCACCCC
CTTCTGCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCG
CCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGG
AGCGGGCGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGCGGCCCGTGTGTGTTTTGTGCTGTGT
CCACGCGCTAAGGCGACCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTCGCATAGTCACGTAGCTC
CCACCCACCCCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATAATTTATATGGCTTTTTTCTTCGACAAAA
AAATAATAAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1753

MAAPTKCQLRGRLVLLCSLLGMLWEARASQIRYSVPEETEKGYIVGNISKDLALEPRELAERRVRIVSRGRTQLF
SLNPRSGTLVTAGRIDREELCAQSPRCLVNFKVLVEDRVKLYGIEIEVTDINDSAPKFQAESLEVKINEIAVPGA
RYPLPEAIDPDVGVNSLQSYQLSPNHHSFSLNVQTDNGAINPELVLERALDREEATAHHLVLTASDGGEPRRSST
VRIHVTVLDTNDNAPVFAQRIYRVKVLNVPPGTWLLTATASDLDEGINGKVAYKFWKINEKQSLLFQLNENTGE
ISTAKSLDYEECSFYEMEIQAEDGGGLKGWTKVLISVEDVNDNRPEVTITSLFSPVREDAPQGTVILLFNAHDRD
SGKNGQVVCISIENLSFTLENSEEDYYRLLTAQILDREKASEYNITVTATDRGTPPLSTEIHITLQVTDINDNPP
AFSQASYSVYLPENNARGTSIFSVIAYDPDSNENSRVIYSLAEDTIQGSPLSTYVSINSDTGVLIALCSFDYEQF
RDLQMQVTASDSGSPPLSSNVSLRFLVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDRDSGQ
NAWLSYRLFKASEPGLFSVGLHTGEVRTARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAIADSIPDILADL
GSLQIPADLEASDLTLYLVAVAVVSCVFLTFVITLLALRLRHWHSSHLLRATSDGLAGVPTSHFVGVDGVRAFL
QTYSQEFSLTADSRKSHLIFPQPNYADTLISQQSCEKNEPLCVSVDSKFPIEDTPLVPQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1754A

ATGCAGAGAGCCAGAGAAGCCGAAATGATGAAAAGTCAGGTACTGTTTCCCTTCCTGCTGTCTTTGTTCTGCGGG
GCCATCTCCCAGCAGATCCGATACACGATTCCAGAGGAGCTAGCCAACGGCTCACGGGTGGGGAACTTGCCAAG
GATCTGGGGCTCAGTGTCCGGGAGTTGCCAACTCGAAAACCTGCGGGTTAGTGCAGAGGATTATTTCAACGTTAGT
TTGGAGAGCGGGGATTTGTTAGTGAACGGTAGGATAGATCGAGAGAAGATTTCGCGGAAGGAACTTGAGTGTGCA
CTAGAATTCGAAACGGTCGCTGAAAACCCAATGAATGTTTTCCACGTGGTTGTTGTAATCCAAGATATTAATGAC
AATGCACCACGTTTCGTTGCAAAAGGCATTGACTTAGAAATTTGTGAGTCAGCCTTACCCGGGGTAAAATTCCT
CTGGATTCTGCTCAAGATGCAGATGTGGAAGGCAATTCACCTGAAGTTATACACCATCAACCCCAATCAATACTTC
TCTCTGTCAACGAAGGAAAGTCCTGATGGAAGTAAATATCCGGTATTACTGCTGGAAAAACCTCTAGACAGGGAA
CATCAGAGCTCTCATCGCTTAATCCTGACTGCCATGGATGGCGGGGACCCGCCTCTAAGCGGCACCACCCATATC
TGGATCCGAGTTACGGATGCCAATGATAATGCTCCCGTGTITAGCCAGGAGGTATACAGGGTTAGCCTCCAAGAA
AACGTACCGTGGGGAACCTCCGTGCTGCGGGTGATGGCCACAGACCAGGATGAGGGCATTAAATGCAGAGATCACC
TATGCCTTCCTCAATTCCCCAATAAGTACCAGCCTCTTCAATCTCAATCCAAATACTGGCGACATCACAAACCAAT
GGCACATTGGATTTTGAAGAGACAAGTAGATATGTGTTGAGTGTGGAAGCTAAGGATGGAGGAGTACACACAGCT
CACTGTAATGTTCAAATAGAAATTTGTTGACGAGAATGACAATGCCCCAGAGGTGACATTCTATGCTCTTCTCTAAC
CAGATTCAGAGGATTACAGACCTTGGAACTGTAATAGCCCTCATAAAAGTGCGAGACAAGGATTCTGGGCAAAAT
GGCATGGTGACATGCTATACTCAGGAAGAAGTTCTTTCAAATTAGAATCCACCTCGAAGAATTATTACAAGCTG
GTGATTGCTGGAGCCCTAAACCGGGAGCAGACAGCAGACTACAACGTCACAATCATAGCCACCGACAAGGGCAAA
CCAGCCCTTTCTCCAGGACAAGCATCACCTGCACATCTCCGACATCAACGACAATGCACCTGTTTTCCATCAG
GCCTCTATGTGGTCCACGTGTCTGAGAACAAACCCACCTGGCGCCTCCATTGCACAAGTAAGCGCCTCCGACCCG
GATTTGGGACCCAACGGCAGAGTCTCCTACTCTATTCTGGCCAGTGACCTGGAGCCGCGGGAGCTGTTGTCTTAC
GTGTCCGTGAGCCCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGACCACGAGCAGCTGCGCGCCTTCGAG
CTCACTGTCAGGCCAGGGACAGGGCTCCCCCGCGCTCAGCGCCAACGTGAGCCTGCGCGTGTGGTGGGGCAG
CTCAATGACAATGCGCCACGGGTGCTGTACCCCGCGCTGGGGCTGATGGCTCCGCCCTCTTCGATATGGTGCCA
CGCGCCGCGAGCCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCAGACTCAGGACACAACGCTTGGCTG
TCCTACCACGTGCTGCAGGCCAGCGAGCCCCGGGCTCTTCAGCCTGGGGTTGCGCACGGGTGAGGTGCGCACAGCG
CGTGCTTTGGGCGACAGGGACGCGGCCCCGCGCAGCGCCTGCTGGTGGCTGTGCGTGATGGAGGACAGCCGCCACTC
TCCGCCACCGCCACGCTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTCAGCGACCGCCCT
GAGCCCTCTGACCCCCAGAGGAACTGCAGTTTTACCTGGTTGTGGCCTTGGCCTTGATCTCAGTGCTCTTTCTC
CTCGCGGTGATTCTAGCATCGCCCTGCGCCTGCGACGTTCTCCAGCCTCGACACTGAGGGCTGCTTCAAACC
GGTCTCTGCTCCAAGTCTGGGCCCGGGGTTCTCCCAACCACAGCGAGGGGACTTTGCCCTATTCTACAATCTA
TGTATTGCCCTCATTCTGCAAGACAGAGTTAATTCTCTCAACCTGACACCGGAAATGGCTCCCCCTCAGGAT
CTGCTGTGTGATGATCCTTCTATGGTTGTATGTGCCAGTATGAAGATCACAAAATCGCTTATGACCCCTCTTTG
TCTTCGCACCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAA
AATGGCGATGACACCGGCACCTGGCCCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCC
GCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGTGCGGCACCATGGGATTGAGCGCCCGCTACGGA
CCCCAGTTCACCCCTGCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACC
AACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAG
AAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCAGCCCAGCTTCTCCTTACCTGC
ACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACA
GAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCGCTGGGAAC
CCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCCCACACCCC
GTTTAGTTACAGCTGAACCTCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACC
CCACTCCAACAGTTCTCTTTCCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAG
TTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCATGGTTT
GGTGCCAGCCCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCA
TGGTACTGATGCTTGTGGATTAGGGAGGGCAATTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACAGTCT
TCTGTTTTGTTTTTATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGAC
TCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGCA

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FIGURE 1754B

TGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAAACATC
CTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCC
AGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGG
ACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTC
AGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGG
CAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTC
AGTCCTTCACCTTGCCAGGTGCCGTTTTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGG
CCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCTGGGT
CCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTC
GGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGCGGGCT
CCGCGCAGCCGTCTGTCCTTGATCTGCCCAGCGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCG
ACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGATAGTCACGTAGCTCCACCCACCCCTCTT
CCTGTGCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAACGTT
TCTTCTGAAAAGCTG

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FIGURE 1755

MQRAREAEMMKSQVLFPFLLSLFCGAISQQIRYTIPEELANGSRVGKLA KDLGLSVREL PTRKLRVSAEDYFNVS
LESGDLLVNGRIDREKICGRKLECALEFETVAENPMNVFHVVVVIQDINDNAPRFVAKGIDLEICESALPGVKFS
LDSAQDADVEGNSLKLYTINPNQYFSLSTKESPDGSKYPVLLLEKPLDREHQSSRLILTAMDGGDPFLSGTTHI
WIRVTDANDNAPVFSQEVYRVSLQENVPWGTSVLRVMATDQDEGINAEITYAFLNSPISTSLFNLNPNNTGDITTN
GTLDFEETSRYVLSVEAKDGGVHTAHCNVQIEIVDENDNAPEVTFMSFSNQIPEDSDLGTVIALIKVRDKDSGQN
GMVTCYTQEEVPFKLESTSKNYYKLVIAGALNREQTADYNVTIIATDKGKPALSSRTSITLHISDINDNAPVFHQ
ASYVVHVSENNPPGASIAQVSASDPDLGPNGRVSYSILASDLEPRELLSYVSVSPQSGVVFAQRAFDHEQLRAFE
LTLQARDQGSPALSANVSLRVLVGDLNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGHNAWL
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLIFADSLQEVLPDLSDRP
EPSDPQTELQFYLVVALALISVLFLAVILAIARLRSSSLDTEGCFQTGLCSKSGPGVPPNHSEGTLPYSYNL
CIASHSAKTEFNSLNLTPEMAPPQDLLCDDPSMVVCASNEDHKIAYDPSLSSHQAPPNTDWRFSQAQRPGTSGSQ
NGDDTGTPNPNQFDTEMLQAMILASASEAADGSSITLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLT
NAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1756A

ATGAAGCGAGCTCAGGGAGGTGCGGGCTGGTGCGGTGGCTGCAGGTACTGTTGCCCTTCCTGTTGTCTTTGTTT
CCCCGGGGCTCTCCAGTCCAGATCCGCTATTCAATTCCAGAGGAGCTGGCCAAAACTCGGTCGTAGGAAACCTC
GCCAAGGATCTGGGGCTCAGCGTCCGGGACTTGCCAGCCCCGAAGCTGCGGGTTAGCGCGGAGAAGGAATATTTT
ACAGTAAACCCAGAAAGCGGAGACTTACTTGTGAGTGACAGAATAGACCGAGAACAGATATGCGGGAAGCAGCCT
CTGTGTGTTCTGGATTTTCGATACTGTGCTGAAAATCCACTAAATATTTTCTACATAGCAGTAATTGTGCAGGAT
ATAAATGATAATACCCCGCTATTCAAACAGACTAAGATTAAATTTAAAAATTGGCGAATCCACTAAGCCAGGTACA
ACATTTCCACTTGACCCAGCCCTGGATTAGATGTTGGTCTTAACCTCACTACAAAGATACCACCTTAATGACAAC
GAGTACTTTGATCTCGCTGAGAAACAGACTCCAGATGGTTCGTAATATCCTGAGTTGATTCTAAACACTCTCTG
GACAGAGAAGAGCACAGTTTACATCAATTGGTCCCTACAGCTGTGGATGGCGGAGACCCACCTCAAAGTGGCAGC
ACCCAAATCCGAATCAAAGTCAAGGATGCCAACGATAACCCCTCCAGTGTTCAGCCAGGACGTGTACAGGGTCACC
CTGAGGGAGGACGTGCCGCCGGGCTTCTTTGTGCTTCAAGTGACGCCACCGACCGGGATGAAGGCATAAACGCA
GAGATCACCTACTCCTTTTATAATGTGGACGAACAAGTGAAACACTTTTTCAACTTAAATGAAAAACAGGAGAA
ATCACGACAAAGGATGATTTGGATTTTGAGATTGCAAGTAGTTACACTCTGAGTATCGAAGCAAAAGATCCTGGA
GATCTAGCAGCCCACTGCAGTATCCAAGTTGAAATCTTGATGACAACGATTGTGCACCTGAAGTTATTGTGACT
TCAGTATCTACTCCCTTACCGGAGGATTGCCACCAGGAACAGTGATCGCCTTGATAAAAAACGAGAGACAGAGAC
TCTGGAGAAAATGGAGAAGTTTACTGCCAAGTGTTGGGAAATGCCAAGTTTATTTTGAAATCTTCTCAAAGAAC
TATTACAAACTAGTGACAGACGCGCTCTGGACCGGGAGGAGATCCCAGAATACAATCTCACCATCACAGCCACC
GACGGGGGCAAGCCGCCCTCTCTCCAGCATAATTGTACCCCTGCACATCTCCGACGTCAACGATAATGCCCCA
GTTTTCCAACAGACTTCTACATGGTTACGTGGCAGAGAACAATCTCCTGGCGCCTCTATCGCTCAAATCAGT
GCCTCTGACCTGACTTGGGCCCCAGTGGCCAAGTTTCTACTCCATCGTAGCGAGCGACCTGAAGCCGCGGGAG
ATTTTATCTACGTGTCCGTGAGCGCGCAGAGCGGGTGGTGTTCGCGCAGCGCGCCTTCGATCATGAGCAGCTG
CGCGCCTTCGAGCTCACACTGCAGGCCCGCGACCAGGGCTCGCCCGCGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTAGTGGGCGACCTCAATGACAAATGCGCCACGGGTGCTGTACCCCGCGCTGCGGCTGATGGCTCCGCCCTCTTC
GATA'GGTGCCACGCGCGCAGAGCCCGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCAGACTCAGGACAC
AACGCTTGGCTGTCTTACCACGTGCTGCAGGCCAGCGAGCCCGGGCTCTTCAGCCTGGGGTTGCGCACGGGTGAG
GTGCGCACAGCGGTGCTTGGGCGACAGGGACGCGGCCCGCCAGCGCCTGCTGGTTCGTGTGCGTGATGGAGGA
CAGCCGCCACTCTCCGCTACGGCCACGCTGCACCTAATCTTCGCGGATAGCCTGCAAGAGGTATTGCCAGACCTC
AGCGACCGCCGGGAGCCCTCTGACCCCCAGGCAAACTGCAGTTTACCTGGTTGTGGCCTTGGCCTTGATCTCA
GTGCTCTTCTTCTCGCGGTGATTCTGGCAATCTCCCTGCGCCTGCGACTCTCTTCCAGGTGAGATGCTTGGGAC
TGTTTTACGCTGGTCTCAGCTCCAAGCCTGGACCTGGGGTTCTCCCAATTACAGTGAGGGTACATTGCCCTAT
TCCTACAACCTGTGTGTTGCCCTACAATCAGCCAAGACAGAGTTCAATTTCTGAACATAACCCCGGAATTGGTT
CCCGCGCAAGATCTCGTCTGTGACAATGCCTCTTGGGAACAAAATACAAATCATGGAGCCGCTGGGGTCCCTTT
GCCTCAGATACTATTTGAAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACC
AGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATG
ATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGTGCCGGCACCATGGGATTGAGC
GCCCCGTACGGACCCCAAGTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAAT
GCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCG
GGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCAACCAGCCAGCTT
CTCCTTACCTGCACCCAGGCCTCAGAGTTTACGGGCTAACCCCAAGAACTAGTGGTAGGGGCCAAGGCCATGCTCC
CCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGT
TCCGCTGGGAACCCCATCCAATCAACTGCTGTACCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCAT
TTGCCACACCCCGTTTGTGTTACAGCTGAACCTCTCATCTTCAAATCAATCAGGCCCATCCATCCCATGCTCC
CTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTA
CAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
AAAGCATGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGA
TCACCATCCCATGGTACTGATGCTGTGCTGGATTAGGGAGGGCATTGTGCTACCAAGCCTCTTCCCAACGCCCT
GGGACAGTCTCTGTTTTGTTTTTTCATTGTTTACGTTTCCACTGCATGCCTTGACTTCCCCACCTCTCTCT
CAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGG

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FIGURE 1756B

ATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGG
ACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCTTCCCACTACATAATAGGGCTCA
GCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGA
AGCAGGTTTAGGACCAGGTCCCCCTTGAGAGGTGAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACT
GGTGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGC
AGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCTGCCC
TCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCAGTGC
GCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTCATAGACCTTCTTCTCCCACCCCTT
CTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCC
CCTCCCTCTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGC
GGGCGCGGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCC GCGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCA
CGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCA
CCCCACCTCTTCTGTGTCTCACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAA
TAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1757

MKASSGRCGLVRWLQVLLPFLLSLFPGALPVQIRYSIPEELAKNSVVGNLAKDLGLSVRDLPAKLRVSAEKEYF
TVNPESGDLVSDRIDREQICGKQPLCVLDFDTVAENPLNIFYIAVIVQDINDNTPLFKQTKINLKIGESTKPGT
TFPLDPALDSVGPNSLQRYHLNDNEYFDLAEKQTPDGRKYPELILKHS�DREEHSLHQLVLTAVDGGDPPQSGT
TQIRIKVTDANDNPPVFSQDVYRVTLREDVPPGFFVLQVTATDRDEGINAEITYSFHNVDQVKHFFNLNEKTGE
ITTKDDLDFEIASSTLSIEAKDPGDLAAHCSIQVEILDNDNCAPEVIVTSVSTPLPEDSPPGTVIALIKTRDRD
SGENGEVYCQVLGNAKFIKSSSKNYYKLVDGALDREEIPEYNLTITATDGGKPPLSSSIIVTLHISDVNDNAP
VFQQTSYMHVAENNPPGASIAQISASDPDLGPGSQVSYIVASDLKPREILSYVSVSAQSGVVFQRAFDHEQL
RAFELTLQARDQGSPALSANVSLRVLVGDLNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVVAVDADSGH
NAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLLVAVRDGGQPPLSATATLHLIFADSLQEVLPDL
SDRREPSDPQAKLQFYLVVALALISVLFFLAVILAI SLRLRLSSRSDAWDCFQPLSSKPGPGVLPNYSÉGTLPY
SYNLCVASQSAKTEFNFLNITPELVPAQDLVCDNASWEQNTNHGAAGVPFASDTILKQAPPNTDWRFSQAQRPGT
SGSQNGDDTGTPNNOFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSN
ATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1758A

ATGGGAAATAGCTCCGGATGGAGGGGCCAGCAGGGCAGAGGCGAATGCTATTTCTCTTCCTGCTCTCTTTGTTA
GACCAGGTTCTCTCCGAACCGATCCGCTACGCTATTCCCGAGGAGCTGGACAGGGGCTCGCTGGTAGGGAACCTC
GCCAAGGACCTGGGGTTTGGCGTGGGGGATTACCTACTAGGAACCTGCGGGTTATTGCAGAGAAGAAATTTCTT
ACCGTGAGCCCCGAAATGGGAACCTTACTTGTGAGCGACCGTATAGACCGAGAGGAGATTTGTGGCAAGAAGTCG
ACGTGTGTTCTGGAATTTGAAATGGTTGCTGAAAAGCCTTTAACTTTTTTCATGTAACCTGTGCTGATCCAGGAT
ATTAACGACAACCCACCGACCTTTAGCCAAAATATCACTGAGCTGGAAATCAGCGAATGGCTCTCACTGGAGCC
ACATTTGCCCTGGAATCTGCGCAAGATCCTGATGTAGGTGTCAATTGCTGCAGCAGTACTACCTCAGCCCTGAT
CCGCACTTCTCTTTGATTGAGAAGGAGAACCTGGATGGCAGTAGGTACCCAGAGCTAGTACTGAAAGCACCCCTG
GACAGGGAAGAGCAGCCACATCACCACCTGGTCTCAGAGCTGTGGATGGGGGCGAGCCCTCCAGAAGCTGTACC
ACCCAGATCAGGGTAATTTGTCGAGATGCAAAATGATAACCCCCAGTATTACTCAGGACATGTACAGGGTCAAT
GTTGCAGAGAACCTGCCCGCTGGCTCTCCGTATTAAAGTGATGGCCATTGACATGGATGAGGGCATCAATGCC
GAAATCATCTATGCTTTCATCAATATTGGCAAGGAAGTGAGACAACCTGTTCAAGCTGGACAGTAAACCGGGGAA
CTCACCACCTATTGGAGAAGTGGACTTTGAAGAGAGAGATAGCTACACAATTGGGGTGGAAAGCAAAGGATGGTGA
CATCACACTGCATATTGTAAAGTACAGATAGATATTTAGATGAAAATGACAATGCCCGGAGATAACCCCTGGCT
TCTGAATCCCAACATATACAAGAAGATGCTGAGCTGGGGACTGCCGTTGCCCTGATCAAAACACATGATCTAGAT
TCTGGATTTAATGGAGAAATCCTATGCCAACTAAAAGGAAACTTCCCTTTAAATCGTTCAAGATACCAAAAAC
ACATACAGGTTGGTGACAGATGGAGCCCTGGACCGGGAGCAGATCCCAGAATACAATGTGACGATCACAGCTACC
GACAAAGGCAATCCACCGCTCTCCTCCAGCAAGACCATCACTCTGCACATCCTTGATGTCAACGACAACGTTCCC
GTTTTCCACAGGCCTCTACACCGTGATGTAGCTGAGAACAATCCGCTGGAGCCTCCATTGCGCATGTGAGA
GCCTCGGATCCCGACTTGGGACCTAATGGCCTTGCTCTCTACTACATCGTGGCCAGTGACCTGGAGCCGCGGGAG
CTGTCGTCTACGTGTCCGTGAGCGCGCGGAGCGGGTGGTGTTCGCGCAGCGAGCCTTCGACCACGAGCAGCTG
CGTGCTTCGAGCTCACTCTGCAGGCCCCGACAGGGCTCGCCTACGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTGGTGGACGACCGCAACGACAATGCACCGCTGGTGTGTACCCAGCTCTGGGGCCCCAAGGCTCTGCGCTCTC
GATATGGTGCCGCGCTCTGCAGAGCCTGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACGCGAGACTCGGGATAC
AACGCTGGCTGTCTTACCACATTGTGCAGGCCAGCGAGCCCCGGGCTGTTGAGCCTGGGCTGCGCACGGGTGAG
GTGCGCACGGCGCGTACCTTGGGCGACAGGGAGGCCGCCCGCCAGCGCCTGCTGGTCACTGTGCGTGATGGAGGA
CAGCAGCCTCTTTAGCCACCGTCATGCTGCACCTAATCTTCGAGATAGCTTGCAAGAGATACAACCTGACCTT
AGCGACCGCCCCACTCCCTCTGACCTCAGGCGGAGCTACAGTTTACCTAGTAGTGGCGTTGGCCTTGATCTCA
GTGCTCTTCTCTCGCGGTGATTCTGGCAATCTCCCTGCGCCTGCGATGCTCTCCAGACCCGCCACTGAGGGC
TACTTTAGCCTGGTGTCTGCTTCAAGACTGTACCTGGAGTTCTCCCCACCTACAGCGAAAGGACTTTGCCTTAT
TCCTACAATCCGTGTGCTGCCTCACATTCCTCAAACACCGAGTTTAAATTTCTCAATATAAAGGCTGAAAATGCT
GCACCACAAGATCTTCTATGTGATGAAGCCTCTTGGTTTGAAGTAATGACAATCCAGAAATGCCTTCTAATTCA
GGCAATTTGCAAAAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACAGCGGC
TCCAAAATGGCGATGACACCGGCACCTGGCCCCAACACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTG
GCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCCGC
TACGGACCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACA
CTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAG
AAGGAGAAGAAGTAAATGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACCAGCCAGCTTCTCCTT
ACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCAAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGG
GAAACAGAAACAAGTGCCAGTCAGACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCT
GGGAACCCCATCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTTGCCA
CACCCGTTTAGTTACAGCTGAACCTCCTCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTC
CCCACCCCATCAACAGTTCTCTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCC
TCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTGGCCTCTCCTTTGATTCTCAATCTTCCCCCAAAGCA
TGGTTTGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATACCA
TCCCCATGGTACTGATGCTTGTGATTTAGGGAGGGCATTGCTACCAAGCCTCTTCCCAACGCCCTGGGGAC
CAGTCTTCTGTTTTGTTTTTCAATTGTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACA
AGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGT

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FIGURE 1758B

GGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGAC
AACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAG
GCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGG
TTTAGGACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGA
AGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAG
CTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGA
AGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCSCCCCC
TAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCC
CTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCC
TCTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCCTGTTTACGTGATGGCGGGTGGGCAGCGGGCGG
CGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGCCGTGTTGTGTTTTGTGCTGTGTCCACGCGCT
AAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCAC
CCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTATATGGCTTTTTTCTTCGACAAAAAATAATAA
AACGTTTCTTCTGAAAAGCTG

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FIGURE 1759

MGNSSGWRGPAGQRRMLFLFLSLLDQVLSEPIRYAIPeelDRGSLVGNLAKDLGFGVGDLPTRNLRVIAEKKFF
TVSPENGNNLLVSDRIDREEICGKKSTCVLEFEMVAEKPLNFFHVTVLIQDINDNPPTFSQNITELEISELALTGA
TFALESAQDPDVGVNLSLQQYYLSPDPHFSLIQKENLDGSRYPELVKAPLDREEQPHHHLVLTAVDGGEP SRCT
TQIRVIVADANDNPPVFTQDMYRVNVAENLPAGSSVLKVMaidMDEGINAEIIYAFINIGKEVRQLFKLDSKTGE
LTTIGELDFEERDSYTIgVEAKDGGHHTAYCKVQIDISDENDNAPEITLASESQHIQEDAELGTAVALIKTHDLD
SGFNgeILCQLKGNFFPKIVQDTKNTYRLVTDGALDREQIPEYNVTITATDKGNPPLSSSKTITLHILDVNDNVP
VFHQASYTVHVAENNNPPGASIAHVRA SDPDLGPNGLVSYIIVASDLEPRELSSYVSVSARSGVVFAQRAFDHEQL
RAFELTLQARDQGSPTLSANVSLRVLVDDRNDNAPLVLYPALGPEGsALFDMVPRSAEPGYLVTKVVAVDADSGY
NAWLSYHIVQASEPGLFSLGLRTGEVRTARTLGdREAARQLLVTVRDGGQQPLSATVMLHLIFADSLQEIQPD
SDRPTSPDPQAELOFHLVVALALISVLFLLAVILAI SLRLRCSSRPATEGYFQPGVCFKTVPGVLP TYSERTLPY
SYNPCAASHSSNTEFKFLNIKAENAAPQDLLCDEASWFESNDNPEMP SNSGNLQKQAPPNTDWRFSQAQRPGTSG
SQNGDDTGTWPNNQFDTEMLQAMILASASEAAGSSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNAT
LTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1760A

ATGGGGAGCGGCGCCGGGGAGCTGGGCGGGCTGAGAGGCTGCCAGTGCTCTTTCTCTTCCTGCTGTCTTTGTTC
TGCCCCGGCGCTCTGTGAGCAGATCCGCTACAGGATTCCTCGAGGAAATGCCCAAGGGCTCCGTAAGTGGGGAACCTC
GCCACGGACCTGGGGTTACAGCTCCAGGAGTTACCGACTCGAAAATGCGCGTCAGTTCCGGAGAAGCCTTACTTC
ACCGTGAGCGCAGAGAGCGGGGAGTTGCTTGTGAGCAGCAGGCTAGACAGGGAGGAGATATGCGGGAAGAAGCCA
GCTTGTGCTCTGGAATTTGAGGCTGTTGCTGAAAATCCACTGAACTTTTATCACGTGAATGTGGAGATCGAGGAC
ATTAATGACCACACGCCAAAATTCACGCAAAATTCCTTTGAGCTGCAAATAAGTGAGTCTGCACAGCCTGGCACA
AGATTTTATACTAGAAGTAGCAGAAGATGCAGATATTGGCTTAAACTCTCTGCAGAAGTATAAACTCTCTCTTAAC
CCAAGTTTCTCATTAAATAATTAAGGAGAAACAGGATGGTAGTAAATACCCGGAAGTGGCACTGGAGAAAACCTTA
GACCGGGAACAACAGAGTTACCATCGTTTAGTCTGACTGCCTTGGACGGTGGACATCCACCCCTAAGCGGCACC
ACTGAGCTCCGGATCCAGGTAACCGACGCCAATGATAATCCCCGGTATTCAACCGAGACGTGTACAGAGTCAGC
CTTCGGGAAAACGTGCCACCAGGCACCACTGTGTTGCAAGTGTGAGCCACTGACCAAGACGAGGGCATCAACTCA
GAAATTACTTATTCTTCTACAGAACCAGGGCAAATCTTTAGTCTGAATTCAAAGAGCGGAGAAATTACCACTCAA
AAGAACTGGATTTTGAAGAGACCAAGGAATATTCAATGTTGTAGAAGGGAGGGATGGTGGTGGACTGGTTGCA
CAATGTACAGTTGAAATTAATATTCAAGATGAAAATGACAAATAGCCCAGAAGTTACATTCCATTCTCTACTTGAA
ATGATTCTGGAACCGCGGTGCCTGGAACACTAATTGCTTTGATCAAAATACATGACCAAGATTCTGGGGAAAAT
GGGGAGGTTAATTGTCAATTACAAGGCGAAGTCCCTTTAAGATTATCTCTTCATCCAAAATTCGTATAAGTTG
GTAACAGATGGAACCTAGACCGAGAGCAAACCCCGAGTACAATGTCACCATCACAGCCACAGACAGGGGCAAG
CCGCCCCCTCTCTCCAGCATAAGCGTCACTACATATCAGAGACGTCAACGATAACGCTCCGGTTTCCACCAG
GCGTCTACTTAGTCAGTGTACCCGAAAACAACCCCTCCTGGGGCTCCATCGCGCAAGTCTGCGCCTCGGACCTG
GACTTGGGGTTGAACGGCCAAGTCTCCTACTCTATCATGCGCAGCGACCTAGAGCCTCTGGCACTGGCCTCTTAC
GTGTCCATGAGCGCGCAAAGTGGGGTGGTGTTCGCGCAGCGCGCTTTGACTACGAGCAGCTGCGCACCTTCGAA
CTCACACTACAGGCCCGCGACAGGGCTCGCCTGCGCTCAGCGCAAACGTGAGCCTGCGCGTGTGGTGGGCGAC
CGAAACGACAACGCACCGCGGGTGTGTACCCCGCGCTGGGTCCCGACGGCTCTGCGCTCTTCGATATGGTGCCG
CGCGCTGCAGAGCCCGGTACCTGGTGACCAAGGTAGTGGCGTGGACGCAGACTCAGGACACAACGCTGGCTG
TCCTACCACGTGCTGCAGGCTAGCGAGCCCGGGCTCTTCAGCCTGGGGCTGCGCACAGGAGAGGTGCGCACAGCG
CGTGCCCTTGGGCGACAGGGACGCGGCCCGCCAGCGCCTGCTGGTGTGTGCGTGATGGTGGACAGCCGCCACTC
TCCGCCACCGCCACGCTGCACTTGGTCTTTGCTGACAGCTTGACAGAGGTGCTGCCGATATCACTGACCGCCCT
GTACCTCTGACCCCAAGGCTGAGCTGCAGTTTACCTAGTGGTGGCCTTGGCCTTGATCTCAGTGCTCTTCCTC
CTGGCCGTGATTCTGGCCGTGCTTGGCCTGCGACGCTCCTCCAGCCTGCCGCTGGAGCTGCTTCCAACCT
GGTCTCTGTGTCAAGTCTGGACCTGTGGTTCCCCCAACTACAGTCAGGGGACTTGCCTTATTCTACAACCTA
TGTGTTGCACATACAGGAAGACGGAGTTAATTTCTTAAATGTAGTGAGCAATTGAGTTTACAGACAAGACATA
CTTTGTGGTGATTATCTGGGGCTTATTTCCACTTTGTAATTCAGCGAGTCGACTTCCATCTGAGTTGCAA
GCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCGGCACAGCGGCTCCCAAAATGGCGATGAC
ACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCT
GCTGATGGGAGCTCCACCTGGGAGGGGTGCCGACCATGGGATTGAGCGCCGCTACGGACCCAGTTTACC
CTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGC
AAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTGGGCAAGAAGGAGAAGAAGTAACAT
GGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCAACCGCCAGCTTCTCCTTACCTGCACCCAGGCCTCA
GAGTTTCAGGGCTAACCCCAAGAACTACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCC
CAGTCAGCACCTACCCCTTCCCCCAGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATC
AACTGCTGTACCCATGGGGGTAGTGGGGTTAGTACACCAAGAACCATTGTCACACCCCGTTAGTTACAG
CTGAACCTCTCCATCTTCCAAATCAATCAGGCCCCATCCATCCATGCCTCCCTCTCCCAACCCACTCCAACAG
TTCTCTTTCCCGAGTAAGGTGGTGGGGTTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTT
GGAAGGGATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCC
TTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATCACCATCCCATGGTACTGATGC
TTGCTGGATTTAGGGAGGGCAATTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTT
TTCATTGTTTACGTTTCCACTGCATGCCTTGAATTTCCCCACCTCCTCCTCAAAACAAGAGACTCCACTGCATGT
TCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGCATGGACAAAGCTT

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FIGURE 1760B

GACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCA
GCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTG
AGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCCT
TGAGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCA
GCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAAT
GAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCT
TGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGT
TAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCTGGGTCCCCGGCCATCC
AGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAAGCGCCCCCTCCCTCTTTCGGCTGGTGTAGA
ATAGCCAGTAGTGTAAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGCTCCGCGCAGCCGT
CTGTCCTTGATCTGCCCGCGGCGGCGGCGGCTGTTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCCCTCCCC
GTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCAC
GCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAAACGTTTCTTCTGAAAAG
CTG

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FIGURE 1761

MSGAGELGRAERLPVLFLLSLFCPALCEQIRYRIPEEMPKGSVVGNLATDLGFSVQELPTRKLRVSSEKPYF
TVSAESGELLVSSRLDREEICGKKPACALEFEAVAENPLNFYHVNVEIEDINDHTPKFTQNSFELQISESAQPGT
RFILEVAEDADIGLNSLQYKLSLNPFSFLIIEKQDGSKYPELALEKTLTREQQSYHRLVLTALDGGHPPLSGT
TELRIQVTDANDNPPVFNRDVYRVSLRENVPPGTTVLQVSATDQDEGINSEITYSFYRTGQIFSLNSKSGEITTQ
KKLDFEETKEYSMVVEGRDGGGLVAQCTVEINIQDENDNSPEVTFHSLLEMILENAVPGLIALIKIHDQDSGEN
GEVNCQLQGEVPFKIISSSKNSYKLVTDGTLTREQTPEYNVTITATDRGKPLSSSISVILHIRDVNDNAPVFHQ
ASYLVSVPENPPGASIAQVCASDLGLNGQVSYSIMASDLEPLALASYVMSAQSGVVFAQRAFDYEQLRFFE
LTLQARDQGSPALSANVSLRVLVGDRNDNAPRVLYPALGPDGSALFDMVPRAAEPGYLVTKVAVDADSGHNAWL
SYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQLLVAVRDGGQPPLSATATLHLVFADSLQEVLPDITDRP
VPSPQAELOQFYLVVALALISVLFLLAVILAVALLRLRRSSPAAWSFCQGLCVKSGPVVPPNYSQGTLPYSYNL
CVAHTGKTEFNFLKCSEQLSSGQDILCGDSSGALFPLCNSSESTSHPELQAPPNTDWRFSQAQRPGTSGSQNGDD
TGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAG
KRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1762A

ATGGGAGGGAGCTGCGCGCAGAGGCGCCGGGCCGCGGCAGGTGCTATTTCCCTTTGCTGCTGCCTTTGTTC
TACCCACCCCTGAGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGTGGGGAACCTC
GCTAAGGATCTAGGGCTCAGTGCTCTGGATGTGTGCGGCTCGCAAGCTGCGAGTGAGCGCGGAGAAGCTGCATTTC
AGCGTAGACGCGGAGAGCGGGGACTTACTTGTGAAGAACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGA
AGATGTGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTTTCATGTCAATTGTGGTGATTGAGGAT
GTTAATGACCACGCCCTCAATTTGATAAAAAGGAAATACATTTAGAAATTTTCGAATCTGCATCCGCTGGTACA
CGACTATCGCTTGACCCTGCCACGGATCCTGATATAAAACATAAACTCAATTAAAGATTATAAGATAAACTCTAAT
CCTTATTTTTTCATTAATGGTTAGAGTTAATTCCGATGGTGGCAAATACCCAGAGTTATCTCTGGAGAAACTCCTA
GACCGGGAAGAACAGAGATCTCATAGCTTGATATTGACTGCCTTGGACGGAGGGGACCCACCAAGAAGTGCCACC
GCTACATAGAAATTTCTGTCAAGGATACCAATGATAACCCCCCGGTTTTTCAGCAGAGACGAATATAGAATTAGT
CTTAGTGAAAATCTGCCCCCTGGGTCCCTGTGTTGCAAGTGACAGCCACTGACCAGGATGAGGGGGTCAATGCT
GAGATAAACTACTACTTCCGAAGCACTGCCAGAGCACAAAACATATGTTCTCATTGGATGAGAAAACAGGTATG
ATTAAGAATAACCAGTCATTGTGATTTTGAAGATGTAGAAAGGTACACCATGGAAGTGGAAGCGAAGGACGGAGGT
GGTCTCTCTACCCAGTGTAAGTAATCATAGAAATCCTTGATGAAAACGACAACAGCCCAGAAATAATCATCACT
TCTCTCTCTGATCAGATTTTGGAGAATTACCTCCAGGAATGGTTGTTGCCCTCTTCAAAACACGGGATCTGGAT
TTCCGAGGAAATGGAGAAGTCAGGTGTAAATATAGAAACAGACATTCCATTCAAGATTTATTCTTCTTCCAATAAC
TACTACAAACTGGTGACAGATGGAGCCCTGGACCGAGAGCAGACACCAGAATACAATGTCACCATCGTAGCCACT
GACAGGGGCAAGCCGCTCTTTCTTCCAGTAGAAGCATCACCTTGATGTGCTGACATCAACGACAACGCCCCA
GTTTTCGACCAGACGTCTACGTGGTCCACGTGGCCGAGAACAAACCCGCCAGGAGCCTCCATTGCGCAAGTGAGC
GCCTCTGACCCGGATTGGGGCTCAATGGCCACATCTCTACTCTATAGTGGCGAGTGACCTAGAGCCCCTGGCG
GTGTCGTACATACGTGTGAGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTTGATCAGGACGCTG
CGCGCCTTCGCGCTCACGCTGCAGGCCCCGACACGGCTCGCCACGCTCAGCGCCAACGTGAGCCTGCGCGTG
TTGGTGGGAGACCGCAATGACAACGCACCGCGGGTGCTGTACCCAGCTCTGGGTCTGACGGCTCCGCGTTCTTC
GATATGGTACCTCGCTCTGACAGAGCCCGCTACCTAGTGACTAAGGTGGTAGCGGTGGACGCCGACTCGGGACAC
AACGCTGGCTGTCTTACCACGTGCTGCAGGCCAGTGAGCCCGGACTCTTCAGCCTGGGGCTGCGCACTGGGGAG
GTGCGCACGGCTCGAGCCTTAGGCGACAGGGACGCAGCCCGCCAGCGCCTGCTGGTCTGCGGTGACGGTGGA
CAGCCGCCACTCTCTGCCACCGCCACGCTTCATCTGGTCTTCGACAGCAACTTGCAAGAGATACTGCCAGACCTC
AGCGACCGCCCTGTACTCTCTGACCCCCAGGCTGAAGTGCAGTTTTACCTGGTGGTGGCCTTGGCCTTAATCTCA
GTGCTCTTCTCTCGCGGTGATTCTGGCCATTGCCTTGCCTGCGACGCTCTCTCAGCCCTGCTACTTGGGAC
TGCTTCCATCCTGGTCTCTGTGTCAAGTCTGGACCTGTAGTTCCCCCAACTACAGTGAGGGGACTTTGCCTTAT
TCTTATAATCTGTGCATTGCACATACGGGTACAAAAGAGTTAATTTCTTAAATGCAGTGTGCCCTACATTCC
AATGAAGACATGGTTTGCAGTGTTTCTCTGGAGCCTTAATTCACCTCATGGTGGGGAGGATTGACTTCACAT
CCTGAGACTCTGACTTCGAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGC
GGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACCAAGTTTGACACAGAGATGCTGCAAGCCATGATC
TTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCC
CGCTACGGACCCAGTTACCCCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCC
ACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCGGGC
AAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCAACCAGCCAGCTTCTC
CTTACCTGCACCCAGGCCTCAGAGTTTTCAGGGCTAACCCCAAGATACTGGTAGGGGCAAGGCCATGCTCCCT
TGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAGCAGTTCC
GCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTG
CCACACCCCGTTTAGTTACAGCTGAAGTCTTCCATCTTCCAAATCAATCAGGCCATCCATCCCATGCCCTCCCTC
CTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAA
GCCTCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAA
GCATGGTTTGGTGCCAGCCCTTCACCTCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATCA
CCATCCCATGGTACTGATGCTTGTGATTTAGGGAGGGCATTGTGCTACCAAGCCTCTTCCCAACGCCCTGGG
GACCAGTCTTCTGTTTTGTTTTTCATTGTTTACGTTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCTCAA
ACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGAAGTGTGTGGATGTGGATG

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FIGURE 1762B

GTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACT
GACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCCTACATAATAGGGCTCAGCC
CAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGC
AGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGT
GGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGG
GAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCC
TGAAGCCTCAGTCCTTACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCC
CCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCTTGTGCATAGACCTTCTTCTCCCCCCCCCTTCTG
CCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCT
CCCTCTTTCGGCTGGTGTAGAAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGG
CGGCGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGCGGCCGTTGTGTGTTTTGTGCTGTGTCCACGC
GCTAAGGCGACCCCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCC
CACCCTCTTCTGTGCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAA
TAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1763

MGGSCAQRRRAGPRQVLFPLLPLFYPTLSEPIRYSIPEELAKGSVVGNLAKDLGLSVLDVSARKLRVSAEKLHF
SVDAESGDLVKNRIDREQICKERRRCELQLEAVVENPLNIFHVIVVIEDVNDHAPQFDKKEIHLEIFESASAGT
RLSLDPATDPDININSIKDYKINSNPYFSLMVRVNSDGGKYPELSLEKLLDREEQRSHSLILTALDGGDPPRSAT
AHIEISVKDTNDNPPVFSRDEYRISLSENLPSPVLQVTATDQDEGVNAEINYFRSTAQSTKHMFSLDEKTGM
IKNNQSFDFEDVERYTMEVEAKDGGGLSTQCKVIEILDENDNSPEIIITSLSHQILENSPPGMVVALFKTRDL
FGNGEVRNIETDIPFKIYSSSNYYKLVDGALDREQTPEYNVTIVATDRGKPLSSSRISITLYVADINDNAP
VFDQTSYVVHVAENNPPGASIAQVSASDPDLGLNGHISYSIVASDLEPLAVSSYVSVAQSGVVFQRAFDHEQL
RAFALTQARDHGSPTLSANVSLRVLVGDRNDNAPRVLYPALGPDGSAFFDMVPRSAEPGYLVTKVAVDADSGH
NAWLSYHVLQASEPGLFSLGLRTGEVRTARALGDRDAARQRLVAVRDGGQPPLSATATLHLVFAADNLQEILPDL
SDRPVLSDPQAEHQFYLVVALALISVLFLLAVILAIARLRRSLSPATWDCFHPGLCVKSGPVVPPNYSEGILPY
SYNLCIAHTGTKEFNFLKCSVPLHSNEDMVCSPGALIPPHGGEDLTSHPETLTSQAPPNTDWRFSQAQRPGTS
GSQNGDDTGTWPNNQFDEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNA
TLTNAAGKRDGKAPAGGNGNKKKSGKKEK

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FIGURE 1764A

GCTGCGCAGACCTTGCCCAGCACACCAGATTGCCAGCTCCGAGACCCGGGACTCCTCCTGTCTGGGCCGAATGC
TCTTTTAGCGCGGTAGAGTGCACCTTTCTCCAAGTGGAAAAGCGGGGACCCAGCGAGAACCCGAGCGAACGATGGG
AGGGAGCTGCGCGCAGAGGCGCGGGCCGGCCCGCGGCAGGTACTATTTCTTTGCTGCTGCCCTTTGTTCTACCC
CACGCTGTGTGAGCCGATCCGCTACTCGATTCCGGAGGAGCTGGCCAAGGGCTCGGTGGTGGGGAACCTCGCTAA
GGATCTAGGGCTTAGTGTCTGGATGTGTCTGGCTCGCGAGCTGCGAGTGAGCGCGGAGAAGCTGCACTTCAGCGT
AGACGCGCAGAGCGGGGACTTACTTGTGAAGGACCGAATAGACCGTGAGCAAATATGCAAAGAGAGAAGAAGATG
TGAGTTGCAATTGGAAGCTGTGGTGGAAAATCCTTTAAATATTTTTTCAATGTCATTGTGGTGATTGAGGATGTTAA
TGACCACGCCCCCTCAATTCCGGAAAGATGAAATAAATCTAGAAATCAGTGAATCCGTCAGCCTGGGGATGGGAAC
AATCTTTGAGTCTGCAGAAGATCCTGATATTAGTATGAATTCGCTGAGCAAATACCAACTAAGTCCTAACGAGTA
TTTCTCATTGGTGGAGAAAAGACAATCCTGATGGTGGCAAATATCCAGAATTAGTATTGCAGAAGACTCTGGACCG
AGAAACGCAGAGCGCTCACCACCTTGGTACTGACCGCCTTAGATGGTGGGGACCCCTCCCCGAAGCGGTACTGCTCA
GATAAGAATCCTGGTAATAGATGCCAATGACAACCCCCAGTGTTTCAGCCAGGACGTGTACAGGGTTAGCCTTCG
GGAAGACGTGCCTCCAGGCACCTCCATCCTGAGAGTGAAGGCCACTGACCAGGACGAGGGGCATCAACTCAGAGAT
CACTTATTCTTTCTTTGGTGTGGCTGACAAAGCTCAGCACGTGTTCTCTCTGGATTACACTACAGGAAACATTCT
AACTCAGCAGCCTTTGGATTTTGAAGAAGTAGAAAGATATACGATAAACATAGAAGCAAAAGACCGAGGATCTCT
CTCAACACGGTGTAAAGTAATTGTAGAAGTTGTAGACGAAAACGACAACAGCCCAGAAATAATCATCACGTCACT
CTCTGATCAGATTATGGAGGATTCCCTCCAGGAGTGGTTGTTGCCCTCTTCAAAACACGGGACCAAGACTCAGG
GGAAAATGGGGAAGTCAGGTGTAGCTTAAGTAGAGGTGTTCCATTTAAGATTCACTTCTTCTTAATAATTACTA
CAAGCTAGTAACAGATGAGGCCCTGGATCGGGAGCAGACCCAGAGTACAACGTCAACATCGCAGCCACAGACAG
GGGCAAGCCTCCGTTATCCTCCAGCAAAACCATAACCTGCACATTACTGACGTCAATGACAACGCGCCGGTTTT
CGGACAGTCAGCCTACCTGGTCCACGTGCCAGAAAACAACAGCCGGGTGCCCTCATAGCGCAAGTCAGTGCCCTC
TGACCCAGACTTCGGGCTCAACGGCCGTGTCTCTACTCTCTCATTGCCAGCGACCTGGAGTCACGAACGCTGTC
GTCTACGTGTCCGTGAGCGCGCAGAGCGGGGTGGTGTTCGCGCAGCGCGCCTTCGACCACGAGCAGCTGCGCAC
CTTCGAGCTCACGCTGCAGGCCCGCGACCAAGGGCTCGCCCGCGCTCAGCGCCAATGTGAGCCTGCGCGTGTGGT
GGGCGACCGTAACGACAACGCACCGCGGGTGTGTACCTGCGCTGGGTCCCGACGGCTCCGCGCTCTTCGACAC
AGTGCCCGCGGGCCGCGCAGCCAGGCTACCTGGTGACCAAGGTGGTGGCCGTGGACGCGGACTCGGGGCACAATGC
CTGGCTGTCTTACCAGTGGTGCAGGCCAGTGAGCCCGGGCTCTTCAGCCTGGGGCTGCGAACAGGCGAGGTGCG
CATGGTGGCTGCTTTGGGTGACAAGGACTCGGTCCGCCAGCGCCTGCTAGTCGTGTAAGAGATGGAGGACAGCC
ACCCCTTTTCAGCCACTGCCACGCTGCACCTGGTGTTCGAGATAGCTTGCAAGAGGTACTGCCGATTTCAGCGA
CCATCCACACCCCTCTGACTCCCAGGCTGAGATGCAGTTTTACCTGGTGGTGGCCTTGGCCTTGATTCTGTGCT
CTTCTCCTCGCGGTGATTCTAGCTATTGCTCTACGCTGCGACAGTCTTTCAGCCCTACTGCAGGAGACTGCTT
TGAGTCAGTTCTCTGCTCCAAGTCCGGACCTGTGGGTCCCCCAACTACAGTGAGGGAACGTTGCCCTATGCCTA
TAATTTTGTGTGCTGGGGATCAAATGAATCCAGAATTAATTTTTTACATCTGTTGATCATTGTCCAGCCAC
ACAAGATAACCTCAACAAAGATAGCATGCTACTGGCTAGCATTTTAACTCCAGCGTTGAAGCAGATAAGAAGAT
TCTTAAACAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCA
AAATGGCGATGACACCGGCACCTGGCCCCAACACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTC
CGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGG
ACCCAGTTACCCCTGCAGCACGTGCCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGAC
CAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGA
GAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACAGCCAGCTTCTCCTTACCTG
CAGGAGGCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAAC
AGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAA
CCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTACTGTAGACACCAAGAACCATTGGCCACACC
CGTTTAGTTACAGCTGAATCTCTCATCTTCCAAATCAATCAGGCCATCCATCCATGCCTCCCTCTCCCCAC
CCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTA
GTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTT
TGGTGCCAGCCCTTACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATACCATCCCC
ATGGTACTGATGCTGTGCTGATTTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACAGTC

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FIGURE 1764B

TTCTGTTTGTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGA
CTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGC
ATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACAT
CCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGC
CAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAG
GACCAGGTCCCCCTTGAGAGGTCAGAGGGGCCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGT
CAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGG
GCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCT
CAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTG
GCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCTTCTGCCCTGGG
TCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCCTCTTT
CGGCTGGTGTAGAATAGCCAGTAGTGTAGTGGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGCGGGC
TCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGC
GACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCT
TCCTGTGTCTCAGCAAGTTTATACTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTT
TTCTTCTGAAAAGCTG

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FIGURE 1765

MGGSCAQRRRAGPRQVLFP LLPLFYPTLCEPIRYSIPEELAKGSVVG NLA KDLGLSVLDVSARELRVSAEKLHF
SVDAQSGDLLVKDRIDREQICKERRRCELQLEAVVENPLNIFHVIVVIEDVNDHAPQFRKDEINLEISESVSLGM
GTILES AEDPDISMNSLSKYQLSPNEYFSLVEKDNPDGGKYPELV LQKTL DRETQSAHHLVLTALDGGDPPRSGT
AQIRILVIDANDNPPVFSQDVYRVSLREDVPPGTSILRVKATDQDEGINSEITYSFFGVADKAQHVFSLDYTTGN
ILTQQPLDFEEVERYTINIEAKDRGSLSTRCKVIVEVVDENDNSPEIIITSLS DQIMEDSPPGVVVALFKTRDQD
SGENGEVRCSLSRGVPFKIHSSSNYYKLV TDEALDREQTPEYNVTIAATDRGKPEPLSSSKTITLHITVDNDNAP
VFGQSAYLVHVPENNQPGASIAQVSASDPDFGLNGRVSYSLIASDLESRTLSSYVS VSAQSGVVFAQRAFDHEQL
RTFELTLQARDQGSPAL SANVSLRVLVGD RNDNAPRVLYPALGPDGSALFDTVPRAA QPGYLVTKVVAVDADSGH
NAWLSYHV VQASEPGLFSLGLRTGEVRMVRALGDKDSVRQRLLVAVRDGGQPPLSATATLHLVFADSLQEVLPDF
SDHPTP SDSQAEMQFYLVVALALISVLFLLAVILAIALRLRQSF SPTAGDCFESVLC SKSGPVGP PNYSEGTL PY
AYNFCVPGDQMNPEFNFFTSVDHCPATQDNLNKDSMLLASILTPSVEADKKILKQQAPPNTDWRFSQAQRPGTSG
SQNGDDTGTPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGSNAT
LTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1766A

ATGCTCCGCAAGGTGAGAAGCTGGACAGAAATCTGGCGGTGGGCTACCCCTTTGTTCTCTTTTACCACCTGGGT
TACGTTTGTGGGCAGATCCGCTACCCGGTCCCAGAGGAGTCACAGGAAGGGACTTTTGTAGGGAATGTCGCTCAA
GATTTCTGCTGGATACGGACAGTCTGTCTAGCTCGCAGGCTGCAGGTCGCTGGAGAGGTGAACCAAAGACACTTC
CGTGTGGATTGTTGGACAGCGGAGCCCTGTCTCATCAAGAACCCAATCGACCGAGAGGCACTGTGTGGGCTCAGTGCC
AGCTGCATCGTGGCCCTGGAGTTTGTACCCGAAGGTCCTTTGGAAATGTACCGAGCAGAGGTAGAGATCGTAGAT
GTGAATGATCACGCCCCCGTTTTCCGCGGCAGCAGCTGGACTTGGAAATTTGGGGAGGCAGCTCCTCCAGGACAG
CGTTTCCCCTTTGGAAAAGGCTCAGGATGCAGATGTGGGGAGCAATTCGATTAGCAGCTATAGGCTGAGCTCCAAT
GAACACTTTGCACTGGATGTGAAGAAGCGCAGCGACGGCAGCCTGGTCCCAGAGCTGCTCCTGGAGAAGCCTTTG
GATCGAGAGAAGCAATCGGACTACCGCTGGTGTGACTGCTGTGATGGAGGGAACCCGCCGAGATCTGGCACC
GCAGAGCTCCGGGTATCCGTGCTGGACGTAAACGACAACGCCCCAGCCTTCCAGCAATCCAGCTACAGGATTAGT
GTGTTGGAGAGCGCACCCAGCGGGCATGGTGCTCATCCAGCTCAATGCCTCAGACCCGGACCTGGGTCCCAGTGGT
AACGTACACCTTTTATTTCACTGGTTCATACCCCTGATCGTGAAGAAACCTCTTTAGCCTGCACCCCACTACTGGA
AAGCTTACTCTTTTGGGGCCCCCTAGACTTTGAGAGTGAGAATTACTATGAATTTGATGTGCGGGCTCGCGATGGG
GGTCTCCAGCCATGGAGCAACATTGCAGCCTTCGAGTGGATCTGCTGGACGTAAATGACAATGCCCTTACATC
ACAGTGACCTCAGAGCTTGAACCTCCCCGAGAGTGACAGAACCTGGCACTGTGGTGGCACTTATCAGTGTGCAG
GATCCAGACTCAGGGTCAAACGGAGATGTGAGCCTCCGCATTCTGACCACTTGCCATTTGCCCTCAAGTCTGCC
TTCAGGAACCAAGTTCTCCCTGGTACTGCTGGACCTTGGATCGAGAGGCCAAATCTAGCTATGACATCATGGTC
ACTGCTTCTGATGCTGGGAACCTCCTCTCAGTACCCACAGAACTATTTTCTCAATATTTCAAGTGTGAATGAT
AATCCACCCCTCTTTCTTTCAGAGGTACATGAGGTGTTTGTTCCTGAGAACAAATCGCCAGGGGACCTGCTTTGC
TCCCTTGACAGCCTCTGACCCAGACTCTGGCTTGAATGCGCTTATCTCCTACTCACTCCTGGAGCCAGGAATCGA
GATGTATCAGCTTCTCTTTTCATCTCTCTGAACCCCCAGACAGGAGCTGTTTCATGCTACTCGATCCTTTGACTAT
GAGCAAACCCAGACACTGCAGTTTGAGGTGCAGGCCCCGGATCGGGGCAACCCACCCCTTAGCAGCACTGTAACA
GTTCTGCTATTTGTGCTGGACCTCAATGACAATGCTCCAGCTGTGCTCCGTCTCGGGCCCGGCTGTTTCTTA
TGTCCTCCAAAGCACTGCCTCCATCAGTTGGTGTGTCGACCTAATCACAAAGGTGACTGCTGTGGACTTGGATTCA
GGTTACAATGCTTGGGTTTCTATCAGCTCCTGGAGGCCCCAGATCCCAGCCTGTTTGCAGTCTCTCGATATGCT
GGGGAGGTGCGGACGGCTGTCTCTATCCAGCTGACCTCCACACAGAAAGCTGGTCATTGTGGTAAAGGATAGT
GGTAGTCCACCACTCTCTACCTCTGTTACTCTCTTAGTGTCTTAGAGGAAGACACTCATCAGTTGTCCCAGAT
CTTCGAGAATCTTCAGCTCCAAGGAAGGAGAATCTCGTCTAACCTCTACTTGGCTGTGTCCCTAGTGGCAATT
TGCTTTGTCTCCTTTGGCTCATTCTGTGGCACTACTCTCTAAGTGTCTTCTGTGGGGCAGCCTGTGGAGTCACATGC
TTTCTGTCTGGCACCTGTGCTGTCTCACCAGATCTCGAAGGAGGGAGGGGCTTCCCCCTTCCAATGGGATCCTC
CGAATCCAGCTAGGGTCAGATGACCTATCAAGTTTGTGTGATGTGGGAGGCCACTCTCATGGCTGTACACCTTG
GCTTCTGCACCCACTCGGAGTGATAGCTTCATGATGGTGAAGTCAACCAAGTGCACCTATGGCAGGGGAGCCTGTT
CGCCCAAGCTGCCACCCCTCTGATCTTCTCTATGGGCTAGAGCAAGCCCCGCCAACACGGACCTGGCGTTTCTCT
CAGGCCCAGAGACCCGGCACCGGCTCCCAAATGGCGATGACACCGGCACCTGGCCCCAACAAACAGTTTGAC
ACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGGT
GCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCTGCAGCACGTGCCCGACTACCGCCAGAAT
GTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGC
AATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCC
TCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCTCAGAGTTTTCAGGGCTAACCCCCAGAATACTGG
TAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAGTGCAGTGCAGCCTACCCCTTCCCCCAGGG
GGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGT
ACTGTAGACCAAGAACCATTGGCCACACCCGTTTGTGTACAGCTGAACCTCCTCATCTTCCAATCAATCAG
GCCCATCCATCCCATGCTCCTCCTCCCCACCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTGGGGT
GTTGAAGTACCAAGTAACTACAAGCCTCTTGTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCC
TTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCCCTTCACTCCTTCCAGAGCCCAAGATCAATG
CTCAAGTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGATTAGGGAGGGCATTTTGCTAC
CAAGCCTCTTCCAACGCCCTGGGGACCACTTCTGTTTTGTTTTTCAATTGTTTACGTTTCCACTGCATGCCT
TGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGG

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FIGURE 1766B

AAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGA
GGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCCT
CCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCA
TTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCT
GGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCT
TAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCT
TCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGC
CACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAG
ACCTTCTTCTCCACCCCCCTTCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGC
CCTTACAGTAGTGTAGCGCCCCCTCCCTCTTTGGGCTGGTGTAGAATAGCCAGTAGTGTAGTGGGTGTGCTTTT
ACGTGATGGCGGGTGGGCAGCGGGCGGGCTCCGCGCAGCCGTCTGTCTTGATCTGCCCGCGGGCGGCCGTG
TTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCGTAAGTCTTCTCTATAAGCGCTTCTCTT
CGCATAGTCACGTAGCTCCACCCCCACCTCTTCTGTGTCTCAGCAAGTTTTATACTCTAATATTATATGGC
TTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1767

MLRKVRSWTEIWRWATLLFLFYHLGYVCGQIRYPVPEESQEGTFVGNVAQDFLLDTSLSARRLQVAGEVNQRHF
RVDLD SGALLIKNPIDREALCGLSASCIVPLEFVTEGPLEMYRAEVEIVDVNDHAPRFPRQQLDLEIGEAAFPQG
RFPLEKAQDADVGSNSISSYRLSSNEHFALDVKKRSDGSLVPELLEKPLDREKQSDYRLVLTAVDGGNPPRSGT
AELRVSVLDVNDNAPAFQSSYRISVLESAPAGMVLIQLNASDPDLGPGSNVTIFYFSGHTPDVRNLFSLHPTTG
KLTLGLPLDFESENYEFDVRARDGGSPAMEQHCSLRVDLLDVNDNAPYITVTSELGTLPEAEPTVVALISVQ
DPDSGSNGDVSLRIPDHLPLFALKSAFRNQFSLVTAGPLDREAKSSYDIMVTASDAGNPPLSTHRTIFLNISDVND
NPPSFFQRSHEVFVPENNRPGDLLCSLAASDPDSGLNALISYSLLEPRNRDVSASSFISLNPQTGAVHATRSFDY
EQTQTLQFEVQARDRGNPPLSSTVTVRLEFVLDLNDNAPAVLRPRARPGSLCPQALPPSVGAGHLITKVTAVDLD
SYNAWVSQYLLLEAPDPSLFAVSRYAGEVRTAVPIPADLPPQKLVIIVKDSGSPPLSTSVTLVLSLEEDTHPVVPD
LRESSAPREGESRLTLYLAVSLVAICFVSFGSFVALLSKCLRGAAACGVTCFPAGTCACLTRSRREGLPPSNGIL
RIQLGSDDPIKFVDVGGHSHGCTPLASAPTRSDSFMMVKSPSAPMAGEFVRPSCPPSDLLYGLEQAPPNTDWRFS
QAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPFQFTLQHVPDYRQN
VYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1768A

ATGGGGCCCAAGACACTCCACAGCTCGCTGGGAAATGGCAAGTGTGTGCATGTTGTCCTTGTGCTGCTGGGGC
TGGGTGTCTGGGCAGCTTCGTTACTCAGTGGTGGAGGAGTCTGAGCCGGGGACGCTGGTGGGGAATGTTGCTCAG
GATCTGGGCTTAAAGATGACAGATCTGTTGAGCCGGCGGCTGCAATTGGGCTCTGAGGAGAATGGGCGCTATTTT
TCCCTGAGCTTGATGAGTGGTGGCCTGGCAGTGAATCAAAAGATTGACCGAGAAAGCCTATGTGGAGCCAGCACC
AGCTGCCTGCTGCCAGTGCAGGTGGTGAAGTGAACACCCCTGGAGCTAATCCGTGTAGAGGTAGAGATCCTGGAT
CTCAATGACAACCTCTCCTAGCTTTGCCACCCCTGAGCGAGAGATGCGCATCTCAGAATCAGCAGCATCTGGGGCA
CGATTCCCACTGGACAGTGGCCAGGATCCGGATGTGGGCACCAATACTGTGAGCTTTTACACTCTAAGCCCCAAC
AGCCACTTCTCTGAATGTGAAGACCCTAAAAGATGGGAAGCCATTCCCAGAGCTGGTGTAGAGCAGCAGCTG
GATCGTGAAGCCCAGGCAAGACATCAGCTGGTGCTTACTGCTGTGGATGGGGGGACCCAGCCCGCTCAGGGACC
ACCCCTTATCTCTGTCATCGTCTGGACATCAATGATAATGCTCCAACCTTCCAATCCTCAGTTCTACGTGTGGGA
ATCCCAGAGAATGCACCCATTGGTACTCTGCTGCTCCGCCTCAATGCCACTGATCCAGACGAGGGCACCACGGC
CAACTAGACTATTCTTTTGGAGACCACACATCTGAGGCAGTGGCGAACCTCTTTGGCCTAGACCCTAGCAGTGGG
GCAATCCATGTGTTGGGTCCCATAGACTTTGAGGAGTCACGTTTCTATGAAATTCATGCAAGAGCCCGTGACCAG
GGACAGCCTGCCATGGAGGGCCACTGTGTGATTCAAGTGGATGTGGGGGATGTCAATGACAATGCCCCAGAGGTG
CTATTGGCCTCTTTGGCCAACCTGTCTTAGAGAGCACACCAGTGGGCACAGTAGTGGGGTTGTTTAAATGTGCGA
GACCGGGACTCAGGTAGAAATGGTGAAGTGAGCCTTGATATCTCTCCGGACCTGCCATTTCAGATTAGCCTTCT
GAGAACCCTACTCGCTGCTAACCAGCCAGCCTTTGGACCGGGAGGCCACATCCACTATATCATCGAGCTGCTG
GCCAGCGATGCTGGTTTACCTTCCCTACACAAACATCTCACCATCAGGCTCAACATTTTCAGATGTCAATGACAAT
GCACCCCGCTTCAACCAGCAGCTTTACACTGCTTACATCCTAGAAAACCGGCCTCCGGGCTCCCTTCTTTGCACT
GTGGCTGCCTCAGATCCAGACACTGGGGATAATGCCCGCCTCACCTACTCCATTGTAGGAAATCAGGTTTCAGGGA
GCCCCAGCCTCTCTTTTGTATGTCAACCCAGAGGATGGACGGATCTTTGCCAGCGTACCTTTGACTATGAA
TTGCTGCAGATGCTGCAGATTGTGGTGGGGGTTTCGAGACTCCGGCTCTCCCCATTGCATGCCAACACATCTCTG
CATGTGTTTGTCTAGACGAGAATGATAATGCCCCAGCTGTGCTGCACCCACGGCCAGACTGGGAACACTGCAGCC
CCCCAGCGTCTCCCTCGCTCTGCTCCTCTGGCTCCTTGGTCACCAAGGTGACAGCCGTGGATGCTGATGCAGGC
CACAATGCGTGGCTCTCCTACTCACTGTTGCCACAGTCCACAGCCCCAGGACTGTTCTCTGTCTACACACACT
GGTGAGGTGCGCACAGCCCGGGCCTTACTGGAGGATGACTCTGACACCCAGCAGGTGGTGGTCTGGTGAGGGAC
AATGGTGACCCTTCACTCTCCTCCACAGCCACAGTGTGCTGGTTCTGGAGGATGAGGACCCCTGAGGAAATGCCC
AAATCCAGTGACTTCCCTATACACCTCCTGAGCGTTTCAGACCTTACCCTTACCTCATTGTGGCTCTAGCGACC
GTCAGTCTCTTATCCCTAGTCACCTTACCTTTCTGTGACGGAAGTGCCTTCAGGGAACGCGAGACGGGGACGGG
GGTGGAGGGCAGTGTGTCAGGCGCCAGGACTCACCTTCCCGGACTTCTATAAGCAGTCCAGCCCCAACCTGCAG
GTGAGCTCGGACGGCAGCTCAAGTACATGGAGGTGACGCTGCGGGCCACAGACTCGCAGAGCCACTGCTACAGG
ACGTGCTTTTACCGGCCTCGGACGGCAGTGACTTCACTTTCTAAGACCCCTCAGCGTTTCAGCAGCCACAGCT
CTGGCGCTGGAGCCTGACGCCATCCGGTCCCGCTCTAATACGCTGCGGGAGCGGAGCCAGCAAGCCCCGCCAAC
ACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCACCAGCGGCTCCCAAATGGCGATGACACCGGCACCTGG
CCCAACAACAGTTTGTACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGC
TCCACCCTGGGAGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCAGTTTACCCTGCAGCACGTG
CCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGC
AAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGTCCGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCC
AAGAGCCACAGGGCGGCCTCTCCCCAACAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGC
TAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTCCCTTGGGAAACAGAAACAAGTGCCAGCTCAGCACCT
ACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCACTGCTGTACC
CATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCGCACCCCGTTTAGTTACAGCTGAACCTCTCC
ATCTTCAAATCAATCAGGCCCCATCCATCCCATGCCCTCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCC
GAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCA
TGACCTCTGGCCTCTCCTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACTCTCTC
CAGAGCCCAAGATCAATGCTCAAGTTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGTGATTTA
GGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAGTCTTCTGTTTTGTTTTTCACTGTTTGA
CGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTA

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FIGURE 1768B

TGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGT
TATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCAA
TAACTAGGCTGGACCCCTTCCCACTACATAATAGGGCTCAGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGAC
CAATGGATTAAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCTTGAGAGGTCAGA
GGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTG
GGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTC
TCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCG
TTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTGCGCCCCCTAGTGCCCATAGCCTGGTTAAAGTTCCCCA
GTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCCCTTCTGCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCC
AGAGAACCCCAGACCTGCCCTTACAGTAGTGAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGT
GTAGTGCGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGGGCGGGCTCCGCGCAGCCGTCTGTCTTGATC
TGCCCGCGGGCGGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCCTCCCCCGTACTGACTTCT
CCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCCACCCACCCCTCTTCTGTGTCTCACGCAAGTTTTATA
CTCTAATATTTATATGGCTTTTTTTCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1769

MGEKTLPLAGKWQVLCMLSLCCGWVSGQLRYSVVEESEPGLVGNVAQDLGLKMTDLLSRRLQLGSEENGRIYF
SLSLMSGALAVNQKIDRESLCGASTSCLLPVQVVEHLELIRVEVEILDLDNDNSPSFATPEREMRISESAAASGA
RFPLDSAQDPDVGINTVSFYTLSPNSHFSLNVKTLKDGKPFPELVLEQQLDREAQARHQLVLTAVDGGTPARSGT
TLISVIVLDINDNAPTFQSSVLRVGIPENAPIGTLLRLRNATDPDEGTNGQLDYSGDHTSEAVRNLFGLDPSSG
AIHVLGPIDFEESRFYEIHARARDQQQPAMEGHCVIQVDVGDVNDNAPEVLLASLANPVLESTPVGTVVGLFNVR
DRDSGRNGEVSLDISPDLPFQIKPSENHYSLLTSQPLDREATSHYIIELLASDAGSPSLHKHLTIRLNI SDVNDN
APRFNQQLYTAYILENRPPGSLCTVAASDPDTGDNARLTYSIVGNQVQGAPASSFVYVNPEDGRIFAQRTFDYE
LLQMLQIVVGVRDSGSPPLHANTSLHVFVLDENDNAPAVLHPRPDWEHSAPQRLPRSAPPGLVTKVTAVDADAG
HNAWLSYSLLPQSTAPGLFLVSTHTGEVRTARALLEDDSDTQQVVVLVRDNGDPSLSSTATVLLVLEDEDPEEMP
KSSDFLIHPPERSDLTLYLIVALATVSLLSLVTFFTLSAKCLQGNADGDGGGGQCCRRQDSPSPDFYKQSSPNLQ
VSSDGTLYKMEVTLRPTDSQSHCYRTCFSPASDGSDFTLRPLSVQQPTALALEPDAIRSRNTLRERSQQAPPN
TDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHV
PDYRQNVYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1770A

TTCATCTGTACCTTTCAAGTATTCAAATAGAAAAATATAAACAATGTAAATAAAATAGCAAAACAATGTAATATC
TCATAAACTGCAATGGTAAAGCATTATCCTATTGAAATTCACAATTTTTATTGAAAATATTATCGACATG
TAATTCAGTGGCATTAGAGAATAATTTAAAAGCAACAACCTCTATAGAAAGCTTGTAATGATTAAGTAGTT
TAAACCAATAAAACAATTTCTGAGTCAGTCATCTCCAGTAGGTCTATTTTAGTCTCAAGATAAATTCATTCTG
GTGACAACTGAAGTTCCTTAGTTATTGTAGTATATATTGGAGACATTTACAATAAAGCTTAGAGCACAAATGGGA
AATGAAAGTATCATGTTTTTTTTTAAGACCAAATGTATTGCAGAAATGTGAGTAATTTAATCCGATGCTACAATCT
GATCATTCTGATCTAACTGATCATTTAATAACACTAAATAAAACCTTCATCTCACATTCTTTGGCTGTTTCTTT
TAAATATGGGTTTACGGATAAATCAAATAAATTCAAACAAAGTAATAAGCAAATGATTTTTTTTCTCAGTAA
TCTAGTAGAGTATTACATTTAGAAGTAATCTGTATCTCAGTGCAGTAACTATTTAGGACTGTAAGCGCCGCTGTT
CACCTACTGGAAGACAAATGCAACCGAAAACACTCAGATCTCACACCTCACGAAGACCCGCAGATGCCACAACT
AATGCTGGAAGTGCAGCGAAACCCGACCCCTGTTTGGAGGCACTCCAGGTTCCGGAGGATTGTCATCTCCATAG
CTGCGGCAAGAACTAAATAAGACCCATTATGCACAGTGAAGATTCTGAGAGGATTCTGCAGCAAAACAACAAT
GGCGCTCCACAGAGTCGCCCCAGACGCGCGAGCTGATCCTGCTGTGCGCGCTGCTGGGAACGCTGTGGGAAAT
CGGGAGGGGACAGATTCTGCTACTCTGTGCCAGAAGAGACGGACAAAGGCTCCTTCGTGGGTAATATCTCCAAGGA
CCTGGGGCTGGACCCCGGAAGCTGGCGAAGCACGGAGTCCGTATCGTCTCCAGAGGTAGGACGCAGCTCTTTGC
TCTGAACCCGCGCAGCGGCAGCTTGATCACCGCGGGCAGGATAGATCGGGAGGAGCTCTGCGCTCAGAGCCCGCG
GTGCTGATAAATATTAACACCCCTGGTTGAGGATAAAGGAAAACCTCTTTGGGGTAGAAATAGAAATAATTGATAT
TAACGATAATAACCCAAAATTCCAGGTCGAAGATCTAGAAGTAAAAATTACGAAATCGCGGTTCTTGAGCAGC
TTATCCACTCCCAGAAGCTGTTGACCCGGATGTGGGCGTGAATCCCTCCAGAGCTACCAGCTCAGCCCCAATCA
CCACTTCTCCCTGGACGTGCAGACTGGAGACAATGGAGCCATAAACCAGAGCTGGTGCTGGAGCGCGCCCTGGA
CAGGGAGGAAGAGGCTGCTCACCACCTGGTCTCACGGCTCGGATGGCGGCAAGCCGCTCGCTCTAGCACAGT
GCGCATCCACGTGACAGTGTGGATACAAATGACAATGCCCGGTTTTTCTCACCCGATTTACCGAGTGAAAGT
CCTTGAGAACATGCCCCAGGCACGCGGCTGCTTACTGTAAACAGCCAGCGACCCGGATGAGGGAATCAACGGAA
AGTGGCATACAAATTCGGGAAAATTAATGAAAAACAACTCCGTTATTCCAGCTTAATGAAAATACTGGGGAAAT
ATCAATAGCAAAAAGTCTAGATTATGAAGATGTTCAATTTATGAAATGGAAATACAAGCCGAAGATGTGGGGGC
ACTTCTGGGGAGGACCAATTGCTCATTTCGGTGAAGATGTAATGACAATAGACCAGAAGTGATCATTACGTC
TTTGTTTAGCCAGTGTTAGAAAATCTCTTCCCGGACAGTAATTGCCTTCTTGAGTGTGCATGACCAAGACTC
TGAAAGAATGGTCAAGTTGCTGTACACAGTGATAATTTACCTTTTAAATTAGAAAAGTCAATAGGTAATTA
TTATAGATTAGTGACAAGGAAATATTGGACCGAGAAAATGTCTATCTACAATATCACAGTGATGGCCTCAGA
TCTAGGAACACCACCTCTGTCCACTGAAACTCAAATCGCTCTGCACGTGGCAGACATTAACGACAACCCCTCTAC
TTTCCCTCATGCTCCTACTCAGCGTATATCCTAGAGAACAACCTGAGAGGAGCCTCCATCTTTTCTTGACTGC
ACACGACCCCGACAGCCAGGAGAAATGCCCAGGTCACTTACTCTGTGACCGAGGACACGCTGCAGGGGGCGCCCT
GTCCTCGTATATCTCCATCAACTCTGACACCGGTGCTGCTGATGCGCTGCAATCTTTGACTATGAGCAGATCCG
AGACCTGCAGCTACTGGTAACAGCCAGCGACAGCGGGGACCCGCCCTCAGCAGCAACATGTCACTGAGCCTGTT
CGTGCTGGACCAAGATGACAACGCGCCCGAGATCCTGTACCCCGCCCTCCCCACAGACGGTTCCACTGGCGTGGA
GCTGGCGCCCCGCTCCGCAGAGCGTGGCTACCTGGTGACCAAGGTGGTGGCGGTGGACAGAGACTCGGGCCAGAA
CGCCTGGCTGTCTACCGCCTGCTCAAGGCCAGCGAGCCGGGACTCTTCTCGGTGGGTCTGCACACGGGCGAGGT
GCGCACGGCGCGAGCCCTGCTGGACAGAGATGCGCTCAAGCAGAGCCTCGTGGTGGCGCTCCAGGACCATGGCCA
GCCCCCTCTCTCCGCCACTGTACGCTCACCGTAGCGTGGCTGACAGCATCCCCGAAGTCTGACCGAGTTGGG
CAGTCTGAAGCCTTCGGTCGACCGAACGATTTCGAGCCTTACACTCTATCTCGTGGTGGCAGTGGCTGCCATCTC
CTGTGCTTCTCTCGCCTTTGTGCTGTGCTTCTGGGGCTCAGGCTGAGGCGCTGGCACAGTACAGCCTGCTCCA
GGATTCCGGTGGCAGATTGGTAGGCGTGCTGCTGCTCACATTTTGTGGGTGTTGAGGAGGTACAGGCTTTCTGCA
GACCTATTTCCAGGAAGTCTCCCTCACCGCCGACTCGCGGAAGAGTCACTGATCTTTCCCGACCCCACTACGC
AGACATGCTCATCAGTCAGGAGGGCTGTGAGAAAAATGATTCTTTGTTAACATCCGTAGATTTTCATGAATATAA
GAATGAAGCTGATCATGGTCAGCAAGCCCCGCCAACACGGACTGGCGTTTCTCTCAGGCCAGAGACCCGGCAC
CAGCGGCTCCCAAAATGGCGATGACACCGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCAT
GATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAG
CGCCCGCTACGGACCCAGTTCACCTGCAGCACGTGCCGACTACCGCCAGAATGTCTACATCCAGGCAGCAA

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FIGURE 1770B

TGCCCACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTC
GGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCCCAACCCAGCCCAGCT
TCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGCCAAGGCCATGCTC
CCCTTGGGAAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAG
TTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCA
TTTGCCACACCCCGTTTAGTTACAGCTGAATCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTC
CCTCCTCCCCACCCCACTCCAACAGTTTCCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAAGTACCAAGTAACCT
ACAAGCCTCCTAGTTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCC
CAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATG
ATCACCATCCCATGGTACTGATGCTTGTGGATTAGGGAGGGCATTGTGCTACCAAGCCTCTTCCCAACGCCC
TGGGGACCAGTCTTCTGTTTTGTTTTTCATTGTTTGACGTTTCCACTGCATGCCCTTGACTTCCCCACCTCCTCC
TCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTG
GATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCCTCAGGG
GACTGACAACATCCTCCAGATTCCAGCCATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTC
AGCCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCG
AAGCAGGTTTAGGACCAGGTCCCTTGAGAGGTCAGAGGGGCCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCAC
TGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGG
CAGGGAGCTAGGGCAGGGACCAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCC
CTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCCAGGTCCCCAGTG
CGCCCCCTAGTGCCATAGCCTGGTTAAAGTTCCCCAGTGCCTCCTTGTGCATAGACCTTCTTCTCCACCCCT
TCTGCCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCC
CCCTCCCTCTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCAGGTGTGCTTTTACGTGATGGCGGGTGGGCAG
CGGGCGGGGGCTCCGCGCAGCCGTCTGTCCTTGATCTGCCCGCGGGCCCGGTGTGTGTTTTGTGCTGTGTCC
ACGCGCTAAGGCGACCCCTCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCC
ACCCACCCCTCTTCTGTGTCTACGCAAGTTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAA
ATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1771

MAAPQSRPRRGELILLCALLGTLWEIGRGQIRYSVPEETDKGSFVGNISKDLGLDPRKLAKHGVRIVSRGRTQLF
ALNPRSGSLITAGRIDREELCAQSPRCLININTLVEDKGKLFGEIEIIDINDNNPKFQVEDLEVKINEIAVPGA
RYPLPEAVDPDVGVNSLQSYQLSPNHHSFSLDVQTDNGAINPELVLERALDREEEAAHHLVLTASDGGKPPRSST
VRIHVTVLDTNDNAPVFPHPIYRVKVLNMPGTRLLTVTASDPDEGINGKVAYKFRKINEKQTPLFQLNENTGE
ISIAKSLDYECSFYEMEIQAEDVGALLGRTKLLISVEDVNDNRPEVIITSLSFSPVLENSLPGTVIAFLSVHDQD
SGKNGQVVCYTRDNLFPKLEKSIGNYYRLVTRKYLDRENVSIYNITVMASDLGTPPLSTETQIALHVADINDNPP
TFPHASYSAYILENNLRGASIFSLTAHDPDSQENAQVTYSVTEDTLQGAPLSSYISINSDTGVLVYALQSFQDYEQI
RDLQLLVTASDSGDPPSSNMSLSLFLVLDQNDNAPEILYPALPTDGSTGVELAPRSAERGYLVTKVAVDRDSGQ
NAWLSYRLKASEPGLFSVGLHTGEVTRARALLDRDALKQSLVVAVQDHGQPPLSATVTLTVAVADSIPEVLTEL
GSLKPSVDPNDSSLTLYLVVAVAAISCVFLAFVAVLLGLRLRRWHKSRLQLQSGGRLVGVPASHFVGVEEVQAFI
QYSQEVSLTADSRKSHLIFPQPNYADMLISQEGCEKNDSLTSVDFHEYKNEADHGQQAPPNTDWRFSQAQRPG
TSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTMGLSARYGPQFTLQHVPDYRQNVYIPGS
NATLTNAAGKRDGKAPAGNGNKKKSGKKEKK

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FIGURE 1772A

AGAATGGGCTCTAGGCGCCGCTGCTCACCAATCAGGGAATGGGAAGCTGCGCGCCATTGAGTCCCTCCCTCCCC
GCCTCTACCACACAAAGCGGAATGAGATGGATACTCAGATCCTGACACTGGAGACTTAGAAGTATTTTCCTTC
GCTTTCTGATATATTTTGGATGTAGTCGGCCTAGGACTTCATAGATACATAAGCCGATTACAACCAACCAGCTC
GAGAAACCGCGGAATATCGGCTTAGAGCCTGCCATGCGGAATCGGCTACAGCGCGGGGACCGCAGTCGGCTGCTG
CTGCTGCTGTGCATTTTCTGGGGACGCTGCGGGGTTCGGGCCAGGCAGATCCGATATTCGGTGCCAGAAGAG
ACCGAAAAGGGCTCCTTCGTGGGCAATATCTCCAAGGACCTGGGGCTGGAGCCCCGGGAGCTGGCGAAGCGCGGA
GTCCGCATCGTCTCCAGAGGGAAGACACAGCTTTTTCGTGTGAATCCGCGAAGCGGCAGCTTGATCACGGCAGGC
AGGATAGACCGGGAGGAGCTCTGTGAGACGGTGTCTCTCTGTTTTTAAATATGGAATCTCTGTGGAAGACACC
TTGAAGATTTACGGAGTGGAGGTGGAAATAATAGATATTAATGATAACGCCCCAGCTTCCAGGAGGACGAAGTG
GAGATAAAAGTCAGTGAGCACGCAATTCCTGGGGCGCGATTGCTCTTCTAATGCTAGGGATCCAGATGTGGGC
GTGAACTCCCTCCAGAGCTACCAGCTCAGCCCTAATAATTACTTTTCTTGCAACTGCGGGGCAGAACGGATGGG
GCCAAGATCCAGAGCTAGTACTGGAGGGAAGCCTGGACCGAGAGAAAGAGGCTGCTCACCTGCTCCTCTCACA
GCTTTAGATGGAGGCGATCCCATCCGAAAGGGCGCAGTTCCCATTCGTGTGGTGCTCTCGATGTAAATGATCAC
ATCCCAATGTTTACACAGTCCGTATATCGCGTGAGTGTTCAGAAAACATCAGCTCCGGAACCTCGGGTGTGATG
GTTAATGCAACGGATCCAGACGAGGGAATCAACGGGGAAGTAATGTATTCAATTCGGAACATGGAAAGCAAGGCT
TCTGAAATATTCCAATTGGATTACAAACTGGAGAAGTTCAAGTACGGGGTCTCTGGATTTTGAAAAATATAGA
TTCTATGAGATGGAAATCAAGGCCAAGATGGTGGAGGTCTCTTACCACCACGACGATGTTGATCACTGTTGTG
GATGTGAATGATAACGCTCCAGAAATACTATCACCTCTTCTATTAATTCATTCCTGGAACCTCTCCTCCAGGT
ACAGTGATTGCTCTTCTAAATGTGCAAGATCAAGATTCTGGAGAAAATGGTCAAGTCTCCTGTTTTATTCTTAAC
CACCTGCCTTTTAAATTAGAAAAGACTTATGGAATATTACAAATTGATAACAAGCAGAGTGCTGGACAGGGAG
TTGGTCCAGAGCTACAATATAACGTTGACAGCCACAGACCAGGGAAGCCCGCCTTGTCTGCAGAACTCATGTC
TGGCTGAATGTGGCAGATGCAACGATAACCCCTCCCGTTTTTCTCTCACTCCTTACTCTGCCTACATTCGCCGA
AACAACCCAGGGGTGCCTCCATCTTCTCAGTGACCGCCCTCGACCCGGACAGCAACAGAATGCCCTGGTCACT
TACTCTCTGACGGATGACACTGTCCAGGGGTGCCTCTGTCTCTCTATGTCTCTATTAACCTCAACACTGGTGT
CTCTATGCCCTACAATCCTTCGACTATGAGCAGTTTCGAGACTTAGAACTGAGAGTGATAGCACGTGACAGCGGG
GACCCGCCCTCAGCAGCAACGTGTGCTGAGCCTGTTCGTGCTGGACCAGAACGACAATGCGCCCGAGATCCCTG
TACCCTGCCCTCCCCACAGACGGCTCCACTGGCGTGGAGCTGGCGCCCCGCTCTGCGGAACCTGGCTACCTGGTG
ACCAAGGTGGTTGCGGTGGACAAAGATTACGGCCAGAAGCGCTGGCTGTCTATCGCTGCTTAAGGCCACGCAG
CCGGGACTCTTCGCGGTGGGGGAGCACACGGGCGAGCAAGCCCCGCCAACACGGACTGGCGTTTTCTCTAGGCC
CAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACACGGGCACCTGGCCCAACACACAGATTGACACAGAG
ATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGCTGATGGGAGCTCCACCTGGGAGGGGTGCCGGC
ACCATGGGATTGAGCGCCCGCTACGGACCCAGTTACCCCTGCAGCAGTGCCCGACTACCGCCAGAATGTCTAC
ATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAAGCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGC
AACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGGAGGCCAGGCCAAGAGCCACAGGGCGGCCTCTCCC
CAACCAGCCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGAGTTTCAGGGCTAACCCCCAGAATACTGGTAGGGG
CCAAGGCCATGCTCCCCTTGGGAACAGAAACAAGTGCCAGTCAGCACCTACCCCTTCCCCCCAGGGGGTTGA
ATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAACTGCTGTACCCATGGGGGTAGTGGGGTTACTGTA
GACACCAAGAACCATTGCCACACCCCGTTTAGTTACAGCTGAACCTCCTCCATCTTCCAAATCAATCAGGCCCCAT
CCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTTCTCTTTCCCGAGTAAGGTGGTTGGGGTGTGAA
GTACCAAGTAACCTACAAGCCTCCTAGTCTGAAAAGTTGGAAGGGCATCATGACCTCTTGGCCTCTCCTTTGAT
TCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTTCACCTCCTTCCAGAGCCCAAGATCAATGCTCAAG
TTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTTGCTGATTAGGGAGGGCATTGTTGCTACCAAGCC
TCTTCCCAACGCCCTGGGGACAGTCTTCTGTTTTGTTTTTCAATTGTTTGACGTTTCCACTGCATGCCTTGACTT
CCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTCCAAGACAGTATGGGGTGGTAAGATAAGGAAGGGA
AGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGACACATCAAGTTATCAAGGCCTTGGAGGAGGCTCT
GTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGCCATAAACCATAAAGTGGCTGGACCTTCCCCT
ACATAATAGGGCTCAGCCAGGCAGCCAGCTTTGGGCTGAGCTAACAGGACCAATGGATTAACTGGCATTTCAG
TCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCTTGAGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTAC

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FIGURE 1772B

TCCAGAGGTGCCACTGGTGGAAGGGTCAGCGGAGCCCCAGCAGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCC
CTGGGTTGGGGAGGCAGGGAGCTAGGGCAGGGACCAAATGAACAGAAAGTCTCAGCCCAGGATGGGGCTTCTTCA
ACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCCTTCACCTTGCCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGC
CCAGGTCCCCAGTGCGCCCCCTAGTGCCCATAGCCTGGTTAAAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTC
TTCTCCACCCCTTCTGCCCCTGGGTCCCCGGCCATCCAGCGGGGCTGCCAGAGAACCCAGACCTGCCCTTAC
AGTAGTGTAGCGCCCCCTCCCTCTTTTCGGCTGGTGTAGAATAGCCAGTAGTGTAGTGCGGTGTGCTTTTACGTGA
TGGCGGGTGGGCAGCGGGCGGGCGGGCTCCGCGCAGCCGCTCTGTCTTGATCTGCCCGCGGCGGGCCGTTGTGT
TTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGTACTGACTTCTCCTATAAGCGCTTCTCTTCGCATA
GTCACGTAGCTCCACCCACCCCTCTTCCTGTGTCTCAGCAAGTTTTATACTCTAATATTTATATGGCTTTTTT
TCTTCGACAAAAAATAATAAACGTTTCTTCTGAAAAGCTG

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FIGURE 1773

MANRLQRGDRSRLLLLLCIFLGTLRGFRARQIRYSVPEETEKGSFVGNISKDLGLEPRELAKRGVRIVSRGKTQL
FAVNPRSGSLITAGRIDREELCETVSSCFLNMELLVEDTLKIYGVEVEIIDINDNAPSFQEDEVEIKVSEHAIPG
ARFALPNARDPDVGVNSLQSYQLSPNNYFSLQLRGRTDGAKNPVLVLEGLDREKEAAHLLLTALDGGDPPIRG
AVPIRVVVLVDNDHIPMFTQSVYRVSVPENISSGTRVLMVNATDPDEGINGEVMYSFRNMESKASEIFQLDSQTG
EVQVRGSLDFEKYRFYEMEIQQDGGGLFTTTMLITVVDVNDNAPEITITSSINSILENSPPGTVIALLNVDQ
DSGENGVSCFIPNHLPPFKLEKTYGNYYKLITSRVLDRELVSYNITLTATDQGSPPLSAETHVWLVNADDNDNP
PVFPSSYSAYIPENNPRGASIFSVTALDPDSKQNALVTYSLTDDTVQGVPLSSYVSINSNTGVLYALQSFDEQ
FRDLELRVIARDSGDPLSSNVSLSLFVLDQNDNAPEILYPALPTDGSTGVELAPRSAEPGYLVTKVAVDKDSG
QNAWLSYRLKASEPGLFAVGEHTGEQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASAS
EAADGSSTLGGGAGTMGLSARYGPQFTLQHVDPYRQNVYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEK

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FIGURE 1774

CAGAAAGCCATGTCGGACTCGGCGCCCGAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAAGTGTCTTTGAGTGAGATGGTCCCAGAGGCCTGGAGGAGCGGACTGCAAGC
CCCGCCCAACACGGACTGGCGTTTCTCTCAGGCCCAGAGACCCGGCACCAGCGGCTCCCAAAATGGCGATGACAC
CGGCACCTGGCCCAACAACAGTTTGACACAGAGATGCTGCAAGCCATGATCTTGGCGTCCGCCAGTGAAGCTGC
TGATGGGAGCTCCACCCTGGGAGGGGGTGCCGGCACCATGGGATTGAGCGCCCGCTACGGACCCCAAGTTTACCCT
GCAGCACGTGCCCCGACTACCGCCAGAATGTCTACATCCCAGGCAGCAATGCCACACTGACCAACGCAGCTGGCAA
GCGGGATGGCAAGGCCCCAGCAGGTGGCAATGGCAACAAGAAGAAGTCGGGCAAGAAGGAGAAGAAGTAACATGG
AGGCCAGGCCAAGAGCCACAGGGCGGCTCTCCCCAACCCAGCCAGCTTCTCCTTACCTGCACCCAGGCCTCAGA
GTTTCAGGGCTAACCCCCAGAATACTGGTAGGGGGCAAGGCCATGCTCCCCTTGGGAAACAGAAACAAGTGGCCA
GTCAGCACCTACCCCTTCCCCCCCAGGGGGTTGAATATGCAAAAGCAGTTCCGCTGGGAACCCCATCCAATCAA
CTGCTGTACCCATGGGGGTAGTGGGGTTACTGTAGACACCAAGAACCATTGCCACACCCCGTTAGTTACAGCT
GAACTCCTCCATCTTCCAAATCAATCAGGCCCATCCATCCCATGCCTCCCTCCTCCCCACCCCACTCCAACAGTT
CCTCTTTCCCGAGTAAGGTGGTGGGGTGTGAAGTACCAAGTAACCTACAAGCCTCCTAGTTCTGAAAAGTTGG
AAGGCCATCATGACCTCTTGGCCTCTCCTTTGATTCTCAATCTTCCCCAAAGCATGGTTTGGTGCCAGCCCTT
CACCTCCTTCCAGAGCCCAAGATCAATGCTCAAGTTTGGAGGACATGATCACCATCCCCATGGTACTGATGCTT
GCTGGATTAGGGAGGGCATTTTGCTACCAAGCCTCTTCCCAACGCCCTGGGGACCAAGTCTTCTGTTTTGTTTT
CATTTGTTGACGTTTCCACTGCATGCCTTGACTTCCCCACCTCCTCCTCAAACAAGAGACTCCACTGCATGTTT
CAAGACAGTATGGGGTGGTAAGATAAGGAAGGGAAGTGTGTGGATGTGGATGGTGGGGGCATGGACAAAGCTTGA
CACATCAAGTTATCAAGGCCTTGGAGGAGGCTCTGTATGTCTCAGGGGACTGACAACATCCTCCAGATTCCAGC
CATAAACCAATAACTAGGCTGGACCCTTCCCACTACATAATAGGGCTCAGCCAGGCAGCCAGCTTTGGGCTGAG
CTAACAGGACCAATGGATTAACTGGCATTTCAGTCCAAGGAAGCTCGAAGCAGGTTTAGGACCAGGTCCCCTTG
AGAGGTCAGAGGGGCTCTGTGGGTGCTGGGTACTCCAGAGGTGCCACTGGTGAAGGGTCAGCGGAGCCCCAGC
AGGAAGGGTGGGCCAGCCAGGCCATTCTTAGTCCCTGGGTGGGGAGGCAGGGAGCTAGGGCAGGGACCAATGA
ACAGAAAGTCTCAGCCAGGATGGGGCTTCTTCAACAGGGCCCCCTGCCCTCCTGAAGCCTCAGTCTTTCACCTTG
CCAGGTGCCGTTTCTCTTCCGTGAAGGCCACTGCCAGGTCCCCAGTGCGCCCCCTAGTGGCCATAGCCTGGTTA
AAGTTCCCCAGTGCCCTCCTTGTGCATAGACCTTCTTCTCCACCCCTTCTGCCCTGGGTCCCCGCCATCCAG
CGGGGCTGCCAGAGAACCCAGACCTGCCCTTACAGTAGTGTAGCGCCCCCTCCTCTTTTCGGCTGGTGTAGAAT
AGCCAGTAGTGTAGTGGGTGTGCTTTTACGTGATGGCGGGTGGGCAGCGGGCGCGGGCTCCGCGCAGCCGTCT
GTCCTTGATCTGCCCCGCGCGGCCCGTGTGTGTTTTGTGCTGTGTCCACGCGCTAAGGCGACCCCTCCCCCGT
ACTGACTTCTCCTATAAGCGCTTCTCTTCGCATAGTCACGTAGCTCCACCCCACTCCTTCTGTGTCTCAGCG
AAGTTTATACTCTAATATTTATATGGCTTTTTTCTTCGACAAAAAATAATAAAACGTTTCTTCTGAAAAGCT
G

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FIGURE 1775

MVPEAWRSGLQAPPNTDWRFSQAQRPGTSGSQNGDDTGTWPNNQFDTEMLQAMILASASEAADGSSTLGGGAGTM
GLSARYGPQFTLQHVPDYRQNVYIPGSNATLTNAAGKRDGKAPAGGNGNKKKSGKKEKK

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FIGURE 1776

CAGAAAGCCATGTCTGGACTCGGCGCCAGCGCCCAAGCGCTAACCCGCTGAAAGTTTCTCAGCGAAATCTCAGGG
ACGATCTGGACCCCGCTGAGAGGAACIGCTTTTGAGTGAGATGGTCCCAGAGGCTGGAGGAGCGGACTGGTAAG
CACC GGAGGGTAGTGGGAGTTTGTCTTCTGCTTGGTGCCTTGAACAAGGCTTCCACGGTCATTCACTATGAGAT
CCCGGAGGAAAGAGAGAAGGGTTTCGCTGTGGGCAACGTGGTCGCGAACCTTGGTTTGGATCTCGGTAGCCTCTC
AGCCCGCAGGTTCCGGGTGGTGTCTGGAGCTAGCCGAAGATTCTTTGAGGTGAACCGGGAGACCGGAGAGATGTT
TGTGAACGACCGTCTGGATCGAGAGGAGCTGTGTGGGACACTGCCCTCTTGCACTGTAACCTCTGGAGTTGGTAGT
GGAGAACCCGCTGGAGCTGTTACGCGTGGAAGTGGTGATCCAGGACATCAACGACAACAATCCTGCTTTCCCTAC
CCAGGAAATGAAATTGGAGATTAGCGAGGCCGTGGCTCCGGGGACGCGCTTTCCGCTCGAGAGCGCGCACGATCC
CGATGTGGGAAGCAACTCTTTACAAACCTATGAGCTGAGCCGAAATGAATACTTTGCGCTTCGCGTGCAGACGCG
GGAGGACAGCACCAAGTACGCGGAGCTGGTGTGGAGCGCGCCCTGGACCGAGAACGGGAGCCTAGTCTCCAGTT
AGTGCTGACGGCGTTGGACGGAGGACCCAGCTCTCTCCGCCAGCCTGCCTATTACATCAAGGTGCTGGACGC
GAATGACAATGCCCTGTCTTCAACCAGTCCTTGTACCGGGCGCGCTCTGGAGGATGCACCTCCGGCACGCG
CGTGGTACAAGTCTTGAACGGATCTGGATGAAGGCCCAACGGTGAAATTATTTACTCCTTCGGCAGCCACAA
CCGCGCCGGCGTGGCGCAACTATTCCGCTTAGACCTTGTAACCGGGATGCTGACAATCAAGGGTCGGCTGGACTT
CGAGGACACCAAACCTCCATGAGATTACATCCAGGCCAAAGACAAGGGCGCCAATCCCGAAGGAGCACATTGCAA
AGTGTGGTGGAGGTTGTGGATGTGAATGACAACGCCCGGAGATCACAGTCACCTCCGTGTACAGCCAGTACC
CGAGGATGCCCCCTCTGGGGACTGTATCGCTTTGCTCAGTGTGACTGACCTGGATGCTGGCGAGAACGGGCTGGT
GACCTGCGAAGTTCCACCGGGTCTCCCTTTAGCCTTACTTCTTCCCTCAAGAATTACTTCACTTTGAAAACAG
TGCAGACCTGGATCGGGAGACTGTGCCAGAATACAACCTCAGCATCACCGCCGAGACGCCGGAACCCCTTCCCT
CTCAGCCCTTACAATAGTGCCTGTCAAGTGTCCGACATCAATGACAACCTCCACAATCTTCTCAATCTTCCCTA
CGACGTTTACATTGAAGAAAACAACCTCCCCGGGGCTCCAATACTAAACCTAAGTGTCTGGGACCCCGACGCCCC
GCAGAATGCTCGGCTTTCTTTCTTCTCTTGGAGCAAGGAGCTGAAACCGGGCTAGTGGGTGCTATTTACAAAT
AAATCGTGACAATGGCATAGTGTATCCTTAGTGCCCTAGACTATGAGGATCGGCGGGAATTTGAATTAACAGC
TCATATCAGCGATGGGGGCACCCCGTCTAGCCACCAACATCAGCGTGAACATATTTGTCACTGATCGCAATGA
CAATGCCCCCAGGTCTATATCCTCGGCCAGGTGGGAGCTCGGTGGAGATGCTGCCTCGAGGTACCTCAGCTGG
CCACCTAGTGTACGGGTGGTAGGCTGGGACGCGGATGCAGGGCACAATGCCTGGCTCTCTACAGTCTCTTGGG
ATCCCTAACCAGAGCCTTTTGGCATAGGGCTGCACACTGGTCAAATCAGTACTGCCCCGTCCAGTCCAAGACAC
AGATTACCCAGGCAGACTCTCACGGTCTTGATCAAAGACAATGGGGAGCCTTCGCTCTCCACCAGTCTACCCCT
CACTGTGTCACTAACCGAGGACTCTCCTGAAGCCCGAGCCGAGTTCCCTCTGGCTCTGCCCCCGGGAGCAGAA
AAAAATCTCACCTTTTATCTACTTCTTCTCTAATCCTGGTTTCTGTGGGGTTTGTGGTCACTGTTTCGGAGT
AATCATATTCAAAGTTTACAAGTGAAGCAGTCTAGAGACCTATACCGAGCCCCGGTGAGCTCACTGTACCGAAC
ACCAGGGCCCTCCTTGACGCGGACGCCGTGCGGGGAGGCTGATGTGCGCGCACCTTTACCATCAGGTGTATCT
CACCACGGAATCCCGCCGACGCGACCCGCTGCTGAAGAAACCTGGTGCAGCCAGTCCACTGGCCAGCCGCCAGAA
CACGCTGCGGAGCTGTGATCCGGTGTCTATAGGCAGGTGTGGGTGCAGAGAGCGCCCTCCCGGACAGGTAAG
GTTTAGCAAGTCATGCTTGACCTGTAGTGCTTTTTTATTCCTACATCATATGAGGAAGGAATGGAGCTGTTT
TTTTAGTGATGAAGATGTTTCTGTGTGATGCATTACACTTCAACTGGCCCTTCCCTAGATCAAAGTTAGTGCC
TTTGTGAGATGGTGGCCTGCCAGAGTGTGGTTGTGGTCCCATTTTCAGGGGGAAGATACTTGACTCATCTGTGGA
CCTAATTCACATCCTCAGC

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FIGURE 1777

MVPEAWRSGLVSTGRVVGVLGALNKASTVIHYEIPEREKGFVGNVLANGLDLGSLSARRFRVVS GASRR
FFEVNRETGEMFVNDRDLREELCGTLPSCVTLELVVENPLELFSVEVVIQDINDNNPAFPTQEMKLEISEAVAP
GTRFPLESAHDPDVGSNSLQTYELSRNEYFALRVQTRREDSTKYAELVLERALDREREPSLQLVLTALDGGTPALS
ASLP IHIKVL DANDNAPVFNQSLYRARVLEDAPSGTRVQVLTDLDEGPNGEIIYSFGSHNRAGVRQLFALDLV
TGMLTIKGRDLFEDTKLHEIYIQAKD KGANPEG AHCKVLVEVVDVNDNAPEITVTSVYSPVPEDAPLGTVIALLS
VTDLDAGENGLVTCEVPPGLPFSLTSSLKNYFTLKT SADLDRET VPEYNLSITARDAGTPSLSALTIVRVQVSDI
NDNPPQSSQSSYDVYIEENNLP GAPILNLSVWDPDAPQNARLSFFLLEQGAETGLVG RYFTINRDNGIVSSLVPL
DYEDRREFELTAHISDGGTPVLATNISVNIFVTDRNDNAPQVLYPRPGGSSVEMLPRGTSAGHLVSRVVGWDADA
GHNAWLSYSLLGSPNQSLFAIGLHTGQISTARPVQD TDSRQTLTVLIKDN GEP SLSTTATLTVSVTEDSPEARA
EFPSGSAPREQKNLTFYLLLSLILVSVGFVVT VFGV IIFKVYKWKQSRDLYRAPVSSLYRTPGPSLHADAVRGG
LMSPHLYHQVYLT TDSRRSDPLLKKPGAASPLASRQNTLRSCDPVFYRQVLGAESAPPGQVRFSKSCLTLLVLFY
SYIILRKEWSCFFSDEDVFLVMHSHFQLALPRSKLVPL

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FIGURE 1778

CCTCAGTTTCCTTGTTTGTAAAATAGTTGAACTAAATCTTGACCCTTTAATGCTTGTTTGAATCCAAGGCAAA
AAACAATTGCAAGCGCCCTTACTTCCGTGTTGCTTCATACTCCTCTTGCGCCTGCGCTGTCTCCTTGGAGCAGAG
GCGGGGCCAACAAGCCTGTTTTAGAAACCCTCCAGTCCTTAGCTCGTTTAGAACACAAGACTCCAAGCTTATTGG
AGGGCTATCTTGCCTTACGGCTCCAAGCCGCTTTTACGGCGTTTTTCAGCTCGCCATTCACTTCGCTGTGAAGA
TGGCGTCGGGCAGCGGGGTAGGTGTTGTGTTCTGAGGAGGAGGTTTTGCGGGGTGGGGAAATGGTTTTTCAGACCTG
AATAGAGACAAACTCCTGCACCCGACTGGCTTCCCGATATCTCCTCGAGATCCCAGGGTTCAGGTTCAAGAATC
CCCAGTAATAGGCCTTGGCAGAGGGTCAGTAGAATCGCGGAGGTTTCTCGGGTTGGGGTCTTGAGGCTACCTCAG
TCTTCTCGTACAGTCCAAAGAGGCTTCGCTTTCAAAACGTCCTGTAGACACCTGGACCGCGAGGGCGCGGTCCC
TGCTTCTCTAGGGGCCAGACACGGCGACGGATCTTGACGCTTTTCTCCTCCACAGACAAAAAATTTGGACTTT
CGCCGAAAGTGGGACAAAGATGAATATGAGAACTCGCCGAGAAGAGGCTCACGGAAGAGAGAGAAAAGAAAGAT
GGAAAACAGTGACAGCCTGTCAAGCGAGAGCTTTTACGGCATAGGGACTACAAGGTGGACTTGGAATCCAAGCTT
GGGAAGACAATTGTCATTACCAAGACAACCC

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FIGURE 1779

TCGATAGCCGGAAGTCATCCTTGCTGAGGCTGGGGCAACCACCGCAGGTCGAGACAGCAGGCGGCTCAAGTGGAC
AGCCGGGATGGCAGAGCGTGCGGCGCTGGAGGAGCTGGTGAACTTCAGGGAGAGCGCGTGCGAGGCCTCAAGCA
GCAGAAAGGCCAGCGCCGAGCTGATCGAGGAGGAGGTGGCGAACTCCTGAACTGAAGGCACAGCTGGGTCCTGA
TGAAAGCAAACAGAAATTTGTGCTCAAAACCCCCAAGGGCACAAGAGACTATAGTCCCCGGCAGATGGCAGTTG
CGAGAAAGGTGTTTGACGTAATCATCCGTTGCTTCAAGCGCCACGGTGCAGAAAGTCATTGATACACCTGTATTTGA
ACTAAAGGAAACACTGATGGGAAAGTATGGGGAAGACTCCAAGCTTATCTATGACCTGAAGGACCAGGGCGGGGA
GCTCCTGTCCCTTCGCTATGACCTCACTGTTCTTTTGCTCGGTATTTGGCAATGAATAAACTGACCAACATTAA
ACGCTACCACATAGCAAAGGTATATCGGCGGGATAACCCAGCCATGACCCGTGGCCGATACCGGGAATTCTACCA
GTGTGATTTTGACATTGCTGGGAACTTTGATCCCATGATCCCTGATGCAGAGTGCCTGAAGATCATGTGCGAGAT
CCTGAGTTCACCTTCAGATAGGCGACTTCCTGGTCAAGGTAAACGATCGACGCATTCTAGATGGGATGTTTGCTAT
CTGTGGTGTCTTGACAGCAAGTTCCGTACCATCTGCTCCTCAGTAGACAAGCTGGACAAGGTGTCTGGGAAGA
GGTGAAGAATGAGATGGTGGGAGAGAAGGGCCTTGACCTGAGGTGGCTGACCGCATTGGGGACTATGTCCAGCA
ACATGGTGGGGTATCCCTGGTGGAAACAGCTGCTCCAGGATCCTAAACTATCCCAAACAAGCAGGCCTTGGAGGG
CCTGGGAGACCTGAAGTTGCTCTTTGAGTACCTGACCTATTTGGCATTGATGACAAAATCTCCTTTGACCTGAG
CCTTGCTCGAGGGCTGGATTACTACACTGGGGTGATCTATGAGGCAGTGCTGTACAGACCCAGCCAGGCAGG
GGAAGAGCCCCCTGGGTGTGGGCAGTGTGGCTGCTGGAGGACGCTATGATGGGCTAGTGGGCATGTTTCGACCCCCAA
AGGGCGCAAGGTGCCATGTGTGGGGCTCAGCATTGGGGTGGAGCGGATTTCTCCATCGTGGAACAGAGACTAGA
GGCTTTGGAGGAGAAGATACGGACCACGGAGACACAGGTGCTTGTGGCATCTGCACAGAAGAAGCTGCTAGAGGA
AAGACTAAAGCTTGTCTCAGAACTGTGGGATGCTGGGATCAAGGCTGAGCTGCTGTACAAGAAGAACCCAAAGCT
ACTGAACCAGTTACAGTACTGTGAGGAGGCAGGCATCCCACTGGTGGCTATCATCGGCGAGCAGGAACTCAAGGA
TGGGGTCATCAAGCTCCGTTCAAGTGACGAGCAGGGAAGAGGTGGATGTCCGAAGAGAAGACCTTGTGGAGGAAAT
CAAAAGGAGAACAGGCCAGCCCCCTCTGCATCTGCTGAAGTGAACAACTATCAGAGGAAAGGAAGTGGGACTGGC
ACTATTTGAGGTTAAGACAACTGCATATGTAATTCAATTGCTTTGCACTTTTCCGTTTCAGCGGAAGACCTGAA
GAGTGGTCAGAACAGAGCCTTTGATTTTTATTATGGTTATTTATTGATTATTACTGGCAAAAACGCCAGGTAC
AACACCTTTTTTCATACAAGGCCAGGAGGCTTAGTCCAGTCTGTGCTCCTGGGCTACAAGGACCCAGCCTGAGAT
GGTCCCATCTGCAGGGCCCCGCACCAAGTTGGAGCAGATGCCTCCCCACCACCAATTGCCAAAGGTCCAATAAAAT
GCCTCAACCACGGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1780

MAERAALEELVKLQGERVRGLKQQKASAELIEEEVAKLLKLKAQLGPDQSKQKFLKTPKGTRDYSPQMAVREK
VFDVIRCFKRHGAVIDTPVFELKETLMGKYGEDSKLIYDLKDQGGELLSLRYDLTPFARYLAMNKLTKRY
HIAKVYRRDNFAMTRGRYREFYQCDFDIAGNFDPMIPDAECLKIMCEILSSLQIGDFLVKVNDRRILDGMFAICG
VSDSKFRTICSSVDKLDKVSWEVKNEMVGEKGLAPEVADRIGDYVQQHGGVSLVEQLLQDPKLSQNKQALEGLG
DLKLLFEYLTFLGIDDKISFDLSLARGLDYYTGVIYEAVLLQTPAQAGEEPLGVGSVAAGGRYDGLVGMFDPKGR
KVPCVGLSIGVERIFSIVEQRLEALEEKIRTTETQVLVASAQKKLEERLKLSELWDAGIKAELLYKKNPKLLN
QLQYCEEAGIPLVAIIGEQLKDGVIKLSVTSREEVDVRREDLVEEIKRRTGQPLCIC

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FIGURE 1781

ACGCAAAGCAGTGTGGGTTGATTCTGAGGTGCACTGTGGGAAAGAGCTTGTGCTGCGGTGTTGCTGTTGGAGAC
TCGATTGTTGGTGACAGCGAAAGAACCATAACAAATGCGCGAGCGAGATAGTGAGCCGTTCTCCAACCCTTTGG
CCCCGATGGCCACGATGTGGATGATCCTCACTCCTTCCACCAATCAAACCTCACCAATGAAGACTTCAGGAAAC
TTCTCATGACCCCCAGGGCTGCACCTACCTCTGCACCACCTTCTAAGTCACGTCACCATGAGATGCCAAGGGAGT
ACAATGAGGATGAAGACCCAGCTGCACGAAGGAGGAAAAAGAAAAGTTATTATGCCAAGCTACGCCAACAAGAAA
TTGAGAGAGAGAGAGAGCTAGCAGAGAAGTACCGGGATCGTGCCAAGGAACGGAGAGATGGAGTGAACAAAGATT
ATGAAGAAACCGAGCTTATCAGCACCACAGCTAACTATAGGGCTGTTGGCCCCACTGCTGAGGCGGACAAATCAG
CTGCAGAGAAGAGAAGACAGTTGATCCAGGAGTCCAAATTCTTGGGTGGTGACATGGAACACACCCATTTGGTGA
AAGGCTTGGATTTTGCTCTGCTTCAAAGGTACGAGCTGAGATTGCCAGCAAAGAGAAAGAGGAAGAGGAACCTGA
TGGAAAAGCCCCAGAAAGAAACCAAGAAAGATGAGGATCCTGAAAATAAAATTGAATTTAAACACGCTCTGGGCC
GCAATGTTTACCGAATGCTTTTTAAGAGCAAAGCATATGAGCGGAATGAGTTGTTCTGCGGGGCCGATGGCCT
ATGTGGTAGACCTGGATGATGAGTATGCTGACACAGATATCCCCACCACTCTTATCCGCAGCAAGGCTGATTGCC
CCACCATGGAGGCCAGACCACACTGACCACAAATGACATTGTCTATTAGCAAGCTGACCCAGATCCTTTCATACC
TGAGGCAGGGAACCCGTAACAAGAAGCTTAAGAAGAAGGATAAAGGGAAGCTGGAAGAGAAGAAACCTCCTGAGG
CTGACATGAATATTTTTGAAGACATTGGGGATTACGTACCCTCCACAACCAAGACACCTCGGGACAAGGAGCGGG
AGAGATATCGGGAACGGGAGCGTGATCGGGAAAGAGACAGAGACCGTGACCGAGAGCGAGAGCGGAGAACGAGATC
GGGAACGAGAGCGAGAGCGGGACCGAGAGAGAGAAGAGGAAAAGAAGAGACACAGCTACTTTGAGAAGCCAAAAG
TAGATGATGAGCCCATGGACGTTGACAAAGGACCTGGGTCTACCAAGGAGTTGATCAAGTCCATCAATGAAAAGT
TTGCTGGGTCTGCTGGCTGGGAAGGCACAGAATCGCTGAAGAAGCCAGAAGACAAAAGCAGCTGGGAGATTTCT
TTGGCATGTCCAACAGTTATGCAGAGTGCTACCCAGCCACGATGGATGACATGGCTGTGGATAGTGATGAGGAGG
TGGATTATAGCAAAATGGACCAGGGTAACAAGAAGGGGCCCTTAGGCCGTTGGGACTTTGATACCCAGGAAGAAT
ACAGCGAGTATATGAACAACAAAGAAGCTTTGCCCAAGGCTGCATTCCAGTATGGTATCAAAATGTCTGAAGGGC
GGAAAACAGGCGCTTCAAGGAAACCAATGACAAAGCAGAGCTTGATCGCCAGTGAAGAAGATTAGTGCAATCA
TTGAGAAGAGGAAGAAGATGGAAGCTGATGGGGTTGAAGTCAAAGACCAAATACTAA

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FIGURE 1782

MPERDSEFFSNPLAPDGHVDVDPHSFHQSKLTNEDFRKLLMTPRAAPTSAPPSKSRHHEMPREYNEDEDPAARRR
KKKSYAKLRQQEIERERELAEKYRDRAKERRDGVNKDYEETELISTTANYRAVGPTAEADKSAAEKRRQLIQES
KFLGGMEHThLVKGLDFALLQKVRAEIASKEKEEEEELMEKPQKETKKDEDPENKIEFKTRLGRNVYRMLFKSKA
YERNELFLPGRMAYVVDLDDEYADTDIPTTLIRSKADCPTMEAQTTLTTNDIVISKLTQILSYLRQGTRNKKLKK
KDKGKLEKKPPEADMNIFEDIGDYVPSTTKTPRDKERERYRERERDRERDRDRDRERERERDRERERERDRERE
EEKRHSYFEKPKVDDEPMDVDKGPSTKELIKSINEKFAGSAGWEGTESLKKPEDKKQLGDFFGMSNSYAECYP
ATMDDMAVDSDEEVDYSKMDQGNKKGPLGRWDFDTQEEYSEYMNNKEALPKAAFQYGIKMSEGRKTRRFKETNDK
AELDRQWKKISAIIEKRKKMEADGVEVKRPKY

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FIGURE 1783

GTGACCCCAGGCCCTGGTCACTCCATGCTTTGGAGGGTGCTTTTGTCAAAGAGGCCTCCTTTCCCTCACCCAGAG
CTGGATTTCCAAGAGGCTCCCATACCTAGCTGCCCTGGCAGACTCCCAGGGAGGAAAAACAGCGTGGCCTTGGCA
GCTGCCCCGAGGAAGGAGCCCACAGGTGACAGGGAGAAGCCATTGCCATTCCCTGTCTGGCCCCCTTCAGCAAC
CCTGAACACTCTGCTCCAGCCAAGGTGGTGAGGGCAGCTGTTCTTAAACAGCGCAAAGGCAGCAAGGTTGGTGAC
TTTGGAGATGCAATCAATTGGCCACACCTGGAGAGATAGCCCACAAGAGTGTTTCAGCCACAGTCCCACAAGCCT
CAGCCTACCCGTAAACTGCCACCCAAGAAGGACATGAAGGAACAGGAGAAAGGAGAAGGGAGTGATAGTAAGGAG
AGTCCAAAAACCAATCAGATGAATCAGGGGAGGAAAAGAATGGAGATGAGGATTGCCAGCGAGGCGGGCAGAAG
AAGAAAGGAAACAAACACAAGTGGGTTCCATTACAAATAGACATGAAGCCTGAAGTGCCAGAGAGAACTGGCT
TCACGCCCCACTCGCCCCACCGGAGCCTAGACACATACCTGCCAATCGCGGAGAGATCAAAGGGTCTGAGTCTGCC
ACCTACGTGCCCGTGGCCCCCCCCACCCAGCCTGGCAACCAGAGATCAAACCGGAGCCTGCCTGGCAGGACCAG
GATGAGACATCGAGTGTGAAGAGTGATGGGGCTGGTGGGGCGCGGGCTTCCTTCCGTGGCCGTGGACGGGGCGT
GGTCGCGGGCCGGGGACGCGGGCCGGGTGGCACTCGAACCCATTTTACTACCAGTTTGGCTACCGAAAGTTTGAT
GGTGTGGAGGGGCTCGTACGCCCCAAGTACATGAACAACATCACCTACTACTTTGACAATGTCAGCAGCACCGAG
CTTTACAGTGTGGATCAGGAACCTGCTCAAAGACTACATCAAGCGCCAGATTGAATACTACTTTCAGCGTGGACAAT
TTAGAGCGAGACTTCTTCTGCGAAGGAAAATGGATGCTGATGGTTTCTTACCCATCACCCCTTATTGCTTCTTTC
CACCGAGTGCAGGCCCCATTACACTGACATTTCACTCATCTTTGCGGCCCTAAAGGACAGCAAGGTGGTGGAGATC
GTTGATGAGAAAGTTCGTAGGAGGGAGGAACCAGAAAAGTGGCCTCTTCCCCCAATAGTGGATTATTCACAGACT
GATTTCTCCAGCTTCTCAACTGCCCTGAATTTGTTCCCCGTCAGCACTACCAAAGGAGACAGAGTCGGCACCT
GGCTCTCCTCGTGCAGTCACCCAGTGCCAACCAAAACAGAGGAGGTCAGCAACCTAAAGACACTACCCAAGGGC
CTGTCTGCCAGCCTGCCTGACCTGGATTCTGAGAACTGGATTGAAGTGAAGAAGAGGCTCGGCCATCCCCAGCA
CGGCCCAAGAAGTCAGAGGAGTCCAGATTTTCCCACCTGACCTCTCTGCCTCAGCAGCTGCCTTCCCAGCAGCTG
ATGTCCAAGGATCAGGATGAGCAAGAGGAACCTGGATTTTCTGTTTACGAGGAGATGGAGCAGATGGATGGGCGG
AAGAACACCTTCACTGCCTGGTCTGATGAGGAATCTGACTATGAGATTGATGACAGGGATGTCAACAAGATCCTC
ATTGTACCCAGACACCACATTACATGCGCCGGCACCCAGGGGGGACCGCACAGGCAACCACACCTCGCGTGCC
AAGATGAGCGCCGAACCTGGCCAAGGTCATTAATGATGGCCTCTTCTACTATGAGCAGGACCTGTGGGCTGAAAAG
TTTGAACCTGAGTATTCCCAGATCAAGCAAGAAGTCGAGAACTTCAAAAAGGTCAATATGATCAGCCGGGAGCAG
TTTGACACACTGACCCCTGAGCCCCCTGTGGATCCCAACCAGGAAGTTCTCTGGGCCACCTCGGTTCCAGCAA
GTTCTACGGATGCCCTGGCCAACAAGTTGTTTGGTGCTCCTGAGCCCTCCACCATCGCCCGCTCTCTACCAACC
ACTGTCCCAGAGTCACCAAACCTACCGCAACACCAGGACCCCTCGCACTCCCCGGACACCACAGCTCAAAGACTCA
AGCCAGACATCACGGTTTTTACCCAGTGGTGAAGAAGGACGGACACTGGATGCCAAGATGCCTCGAAAAAGAAAG
ACAAGACACAGTTCAAACCCACCCCTTGGAGAGCCATGTGGGCTGGGTGATGGATTCCCGTGAGCACAGGCCCCGT
ACTGCTTCCATCAGTAAGATGGCCCCAGTGTGTGTTTCTGTGTTCCCAAAGCAAGCTTTGAGAGCCACCTACCTA
TGACCAATGCTCTCTACTCCCTGCAGAGATGGCACAGACTGCAATAGGCATGCTTTTGAAGAAAATATACAATT
GATCTTTGAACAACGAAGGGCGTGGGGTGCCAGCTGCACACAGTTGAAAATCCGTGTATACTTTTGACTCTCC
AAAAGCCTACTGTAAACCAGAAGCCTTACCAATAACATATAGTCAATTAGCACATGTTTGCATATTATATGTAT
TACATACTGTATTCTTACAATAAGCTAAATAA

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FIGURE 1784

MKEQEKGEKSDSKESPKTKSDESGEEKNGDEDCQRRGGQKKKGKHKHWVPLQIDMKPEVPREKLASRPTRPPEPRH
IPANRGEIKGSESATYVPVAPPTPAWQPEIKPEPAWHDQDETSSVKSDGAGGARASFRGRGRGRGRGRGRGGT
RTHFDYQFGYRKFDGVEGPRTPKYMNNITYYFDNVSSTELYSVDQELLKDYIKRQIEYYFSVDNLERDFFLRKRM
DADGFLPITLIASFHRVQALTDDISLIFAALKDSKVVEIVDEKVRREEPEKWPLPPIVDYSQTDIFSQLLNCPEF
VPRQHYQKETESAPGSPRAVTPVPTKTEEVSNLKTLPKGLSASLPDLSENWIEVKRPRPSPARPKKSEESRFS
HLTSLPQQLPSSQQLMSKDQDEQEELDFLFDEEMEQMDGRKNTFTAWSDEESDYEIDDRDVNKILIVTQTPHYMR
HPGGDRTIGNHTSRAKMSAELAKVINDGLFYEQDLWAEKFEPEYSQIKQEVENFKKVNMSREQFDTLTPEPPVD
PNQEVPPGPPRFQQVPTDALANKLFGAPEPSTIARSLPTTVPESPNYRNTRTPRTPRTPQLKDSSQTSRFYPVVK
EGRTLDAKMPKRKRKTRHSSNPPLSHVGVWMDSREHRPRTASISSPSEGTPTVGSYGCTPQSLPKFQHPHELL
KENGFTQHVYHKYRRRCLNERKRLGIGQSQEMNTLFRFWSFFLRDHFNKKMYEEFKQLALEDAKEGYRYGLECLF
RYYSYGLEKKFRLDIFKDFQEETVKDYEAGQLYGLEKFWAFLKYSKAKNLDIDPKLQEYLGKFRLEDFRVDPPM
GEEGNHKRHSVVAGGGGGEGRKRCPSQSSSRPAAMISQPPTPPTGQPVREDAKWTSQHSNTQTLGK

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FIGURE 1785

GGCACGAGGGAAGAGCTCCACCTTCTCTGGATGTGCCTGGGCTTGGACTGGCTAGAAATCTTTCTCTGGACTGTT
GCATGTACAGTGCCTCCATCCTGGAGGCAAGAGAGTTGGGAGTGGCTCGAATCAGAGCCGTGCCCAAGATATCCC
TGCTGTTCATCGTTTGAAGCTGACGTCTGTGTCTGTACACTGCTGCCACTGTTGTGTCTCGCTCTGCTTGCT
GTTGCCCTACGCCAGGCCCCGTCTGCGGTGACACCCTTCATCCTACCCTTGGAAACCCCAAGGCCAAGTTGGTTC
AAACTGTTGGAGAACAGAGTTGGCCTGCATCTGGAACACACTTGTCTCAGCTTACCATCTCCTCACACCCAGA
GTGGAAGGTGAACACCTGCAGCTGAGGCTTGGAAACGTTTCTGTGTTGCCCTGAAAAATCTTTGAGACCTCAG
GGAGGCTCTGTCTCTCTTAAAAGGTGGAGAAAGATGCCATTCTCTCCCTAAGGTCTGGTGGAGTCTCCCCATCTT
GCATACCCTTCTGCAAGCCATCTATCTCTGCTCACTCTCCAATTGACCCGCCGGAACAAGGGATGAGGAGGAG
TTGGGGGCTGGGGGGAATCCTGCCAGTTGGTGAAGCCCTGTGGCAGGAAGGTATATGTGGACATAGAGTATACCT
GATTCTCTTTCTTCAGCCACTGACTGCTTGGGTGGGCTGTGAATGATAATGGAATGGCTGGAGTCTGCTGTTGT
CAGAAGGCAGGGAGGGTGATGAAGGACTGACCCACATGGACTGGGATGTGTGTCGGTTATGGGCATGACTGCACG
TTCACCTCTCAGTGGGATCTGGGCAACATGGAGTTCATTGTCTGTTGCTTACTTACTGCAATGTCTTTGGCCCTC
CTTTCAACTGGTTCCTCTGTTGGGCCCCAAGGTTGGGAGTAGGAGACAGTATCCCAGGCTGACAAGGGCTTGCC
CTTTACCTTGGGCACCTTGTTAATTTTTAGCCTGTGCCCTTCCCCACCTTTGCCCTCCCAGTGGTGGTATGTGG
GAAGCCCATCTCAGTTCCTGTGACTTCATGTCTCAAACCAAGGATGAGCGTCTGGTCTCTGCTATGATGGTGGTA
TCCGAGGCCTTTCCCTGCCAGTCTGGTGCCTGCCCCACATTGTACCGGACACTGGATTCTGGACCCCCCTTCTC
CTTTCTTTTCTTTCTTCAGGTCACGCAGCCCTGTACTGTATCCAGCACCACAGAAACCTCAGTGTTTTTCTCT
GCTGGTTTGGGGCACAAGGAAGCCTTAGGGTATGGGGAAAGGCTGTTATTACCTAGAGTTTACTCCCAGGCCAGG
GGGCTGCCATCTTTCTCACAGACATCCCTGAAAGGAAGCCCTTTGGGGCAGGGAGGTGAGGACTTCATCTCAAC
ATCGGCTGGTGGTTGGTAGGGGAGCTTTTTCTTTCTTTCTTTTGTTTTTGTTTTGTTTTGTTTTGTTTTG
GTAACATGTTAGGAGTTAATGTTGCAAAGAGTAGTTTACATCTTCACTTTCTGAAGACACTTGAATTTAGGACCG
ATGTATCTGTGACAAGCATGCCAGAAGTGGCAGGGGCCATCAGGGCTAACCACTTCACACCTACCATCGTCCCAT
GGGGATCCAAGACCTGAGATAAAGCAACAGCCTGCCAGATCCCTCTGTTTCATCCTATCCCTTCCAAGGTTGGTC
CATGCCAACATAACCTCTGGGCATCAGACATCAGCAGGTCTGTGTGCCTCAGCCCTGTTAAGGGGCAGGTTTCTC
TTTAGCCCTCTTCTGCACTTGGGAGCAAAGGCACTACCAGTAGAGAAGGGCCATCCAGCCGTGCCCCAGCCTGG
ACCCCTGGGGCTCAGATAGAGGTGCTGAGCCCTGTGTCAAAGTTGTTAAATGTTTTGTTTTGTTCATTGTAG
CTCTTTTTTTTTTTTTTCCCTTTCTGCTGATTGATTTTACAAAAGAAAGTAAGCTGCTTAGAAGGCCCTGGAAGG
GAAGTGAGGAGGAGGGACAAGGAAGATGACTAGTTACGGAGGGTGAGGGTTGTTTTTGCCAAAAGCCTGGGTA
GAGTGATCTGAATTATCTGGCACCTCCTGAATGGAACCCAGAGTACCTCCTGTGTGGAAGGGTCCCTGGATTT
TCCCTAACACCCACCCTCTCCCCCTTCAGCCATGCTGATGGCAGAGAAGATAAGAACTTGGAGCCCATTTCTCAC
TGGAGAGGAAAACCTTGTCATCTGGCTTTGCGGAGAAGGTTCCACCTTACGCTCGTAGTACATTATCTTTACTATG
TGCTAGGATATCATATTTAAAAGGACAAAAAATGTAAATACTTGAATGAGCTTGATTATAACATTAATATTA
TTGAGAGTATCTGCTTTCCAGGCTGAAGTGATTTCATTATTCTAGTCCTGCTTTAGTCCTTTGTAATTTGTG
GTAATTATGCTTTTCTTTTAAATACAAAAAATGTATAAAAAATAAACACTTGAAAAGGCCAAAAA

AA

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FIGURE 1786

MLGVNVAKSSLHLHFLKILEFRIDVSVISMPEVAGAIRANHFTPTIVPWGSKT

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FIGURE 1787

GCGGTCTTATATAAGCCAGATCCGCAGGGGAGTCCGCAGAAGGGTTAAACAGGTCTTTGGGCTTCGGCGACCTCG
CCCGCGGCAGAAACCGGTAAGAAGACAGTGGGCTGCGCGTCTCATTTTCAGCCTTGCCCGGACTCTCCCAAAGCC
GGCGCCCACTAGTGGCTCCAGAGCCCACAGGTGGCCCCCGGCAGTCTCTGGGGCGCATGGAGCGGCGTTAATAGG
GCTGGCGGCGCAGGCCAGTAGCCGCTCCAACATGAACCTCGTGGGCAGCTACGCACACCATCACCACCATCACCA
CCCGCACCTGCGCACCCCATGCTCCACGAACCTTCCTCTTCGGTCCGGCCTCGCGCTGTCTCAGGAAAGGCC
CTACTTCCAGAGCTGGCTGCTGAGCCCGGTGACGCTGCCCCGACTTCCCTGCGGGCGGGCCGCCCGCCGCGG
CGCTGCAGCCGCCACCGCTATGGTCCTGACGCCAGGCCTGGGCAGAGCCCCGGGCGGCTGGAGGCGCTTGGCGG
CCGTCTTGGCGGCGGAAAGGCTCAGGACCCAAGAAGGAGCGGAGACGCACTGAGAGCATTAAACAGCGCATTGCG
GGAGTTGCGCGAGTGCTATCCCAACGTGCCGGCCGACACCAAGCTCTCCAAGATCAAGACTCTGCGCCTAGCCAC
CAGCTACATCGCCTACCTGATGGACGTGCTGGCCAAGGATGCACAGTCTGGCGATCCCGAGGCCTTCAAGGCTGA
ACTCAAGAAGGCGGATGGCGGCCGTGAGAGCAAGCGGAAAGGGAGCTGCAGCAGCACGAAGGTTTTCTCTCTGC
CCTGGGCCCAGTTCGAGAAGAGGATTAAAGGACGCACCGGCTGGCCGCGAGCAAGTCTGGGCGCTGGAGTTAAACCA
GTGAGCCGAGGCCCGCGCCGAGGACCTGGCCAGGCCAGCCACTCCTGAAGCCCCGGGAGGAGAGGAAGGCAGCGG
CGAACGCCAGGCTCTGGGCTCCGGCGACTGGTGCTACGCATCCCGCGGAGCTTCTGCTGAGCGCCGCCAGGTCTGT
CGGCTGCAACCACACACTTGGATCGCACGTGCAATGTCTTTGATTTTTTTAATACATTAAGAGAAAGAGAAAT
ATATATATATCCACCCCCAGCCCAACCGAGGGCGGCCCTTGGCGGCAACATGCAAGAAGGAGGGACTGTGCAACC
CAAGGGCTCAAAGACGCACTCTTCCACCCTTTTGGAGCGAATTTAGAACCTCAGCCCTATCTCCATTTCCCTATC
TGGCTCTTTCTCTCTTGTCCCTCCATATGATCCGCCCCGACGCCGTCTTCTCTAATTAAATGCAATAAGGAATC
AATTCTTTTCTTGCCTGAGAAAGAGAACCAGACGCGAGGAAGATGAAAGGCTGCCCTTTGTTCTTCTGAATCGTGGT
GGTTTTATTTTATTTTCTTTTGTGCTGCACTTCTGTGTTAGTTCCAAGGGAACACTTCTCTCTTTCTCTG
TCTCTCTTTTCTTCTTCTTTTCTTCTTTTGTCTATCTAAATAAAAGCTTTCCTGTGTTGGAAGTT
TTTATGTATTTAACTACCTACCATGCCTGTTGTGCTCAGGTGTTTGTTCATCCTGCCATCCCCAACCCCTTTCT
ACCTCAAGTCTGTGTGACCACTCACAGCCCCCTCCCTTCGCCAAAGCAGTGTCTATGCTCTTGATTAAATAAAC
ATTTTCTGAAATCAAAAAAAAAAAAA

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FIGURE 1788

MNLVGSYAHHHHHHPHPAHPMLHEPFLFGPASRCHQERPYFQSWLLSPADAAPDFFAGGPPPPAAAAAATAYGPD
ARPGQSPGRLEALGGRLGRRKSGPKKERRRTERINSFAELRECIPNVPADTKLSKIKTLRLATSIIAYLMDVL
AKDAQSGDPEAFKAELKKADGGRESKRKRELQQHEGFPPALGPVEKRIKGRTGWPQQVWALELNQ

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FIGURE 1789

ATGCACTATTCTAAGGAATATAGGCAGATGTACAGAACTGAAATTCGAATGACAAGGATGGCAAGAAAAGCTGGC
AACTTCTATGTACCTGCAGAACCCAAATTGGAGTTTGTTCATCAGGATCAGAGGTATCAATGGTGATCAGATTCAT
AAGATCTATACTGTTGAAAAACGCTTCAAAGAAGCAAATAACTTTCTGTGGCCCTTCAAATTACCTTTCCACCA
GGCAGAGTGAAGAAAAAGACCACTTATTTTGTAGAAGGTGGAAATGCTGGCAACAGGGAGGACCAGATCAACAGG
CTTATTAGAAGAATGAACTAA

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FIGURE 1790

MHYSKEYRQMYRTEIRMTRMARKAGNFYVPAEPKLEFVIRIRGINGDQIHKIYTVGKRFKEANNFLWPFKLPPFP
GRVKKKTTYFVEGGNAGNREDQINRLIRRMN

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FIGURE 1791

GATCAGGGCCGAGTTGTCTCGGCGGGCGCTGCCGAGGCCTCCACCCAGGACAGTCCCCCTCCCCGGGCCTCTCTCC
TCTTGCCCTACGAGTCCCCCTCTCCTCGTAGGCCTCTCGGATCTGATATCGTGGGGTGAGGTGAGCAGGCCCGGGGA
GGGTGGTTACCGCTGAGGAGCTGCAGTCTCTGTCAAGATGATAGAGGTACTGACAACAAGTACTCTCAGAACT
GCTACACCAGCTGAATGCCCTGTTGGAACAGGAGTCTAGATGTGAGCCAAAGGTCTGTGGTTTGAGACTAATTGA
GTCTGCACACGATAATGGCCTCAGAATGACTGCAAGACTAAGGGACTTTGAAGTAAAAGATCTTCTTAGTCTAAC
TCAGTTCTTTGGCTTTGACACAGAGACATTTTCTCTAGCTGTGAATTTACTGGACAGATTCTGTCTAAAATGAA
GGTACAGCCCAAGCACCTTGGGTGTGTTGGACTGAGCTGCTTTTATTTGGCTGTAAAATCAATAGAAGAGGAAAG
GAATGTCCCATTTGGCAACTGACTTGATCCGAATAAGTCAATATAGGTTTACGGTTTCAGACTTGATGAGAATGGA
AAAGATTGTATTGGAGAAGGTGTGTTGGAAAGTCAAAGCTACTACTGCCTTTCAATTTCTGCAACTGTATTATTC
ACTCCTTCAAGAGAACTTGCCACTTGAAAGGAGAAATAGCATTAAATTTGAAAGACTAGAAGCTCAACTGAAGGC
ATGTCATTGCAGGATCATATTTTCTAAAGCAAAGCCTTCTGTGTTGGCATTGTCTATCATTGCATTAGAGATCCA
AGCACAGAAGTGTTAGAGTTAACAGAAGGAATAGAATGTCTTCAGAAACATTCCAAGATAAATGGCAGAGATCT
GACCTTCTGGCAAGAGCTTGTATCCAAATGTTTAACTGAATATTCATCAAATAAGTGTTCCAAACCAAATGTTCA
GAAGTTGAAATGGATTGTTTCTGGGCGTACTGCACGGCAATTGAAGCATAGCTACTACAGAATAACTCACCTTCC
AACAAATTCCTGAAATGGTCCCTTAACTGGATTATTACAGCACCAAAAACTTCTCTGAAGCCTTCTCCACAACC
TTGTTCTATGGATTCCATAATGTTACAATGGATTTAAGCTATGAAGCCTCAAACATCACGAGATAAGCATGATG
GTCTCAGACTTGGGAAAAGTGCCTAATATTATGCTGTAGTGGAATTATGTTTATGATTTGAATTCATCTGTGAAG
GCATTCAAATCAAAGCTAAAAGCCTAAATGTGAAATGCTAATGACAAGCCTGAGAAGGTAAACTATGAATCTTCA
TTTCTATCATTGATCTAACTTTAGATATTGGATCAATATATTTAGGTGGTATTGAAAATGCTATTGGAGGAGTCA
CACTAATACTATCAACTATCAGTCTTCCCACAGCTTCAATCACTGTCAATTATTCTAATCCTACTCCTACTTAAAT
TTTAAGTTATGAGGTTTATGTGCGAAAGCAACATTTACAAATGTACTTTTAAGGCATAATAAGGGTTAACATTCT
AGG

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FIGURE 1792

MIEVLTTTDSQKLLHQLNALLEQESRCQPKVCGLRLIESAHDNGLRMTARLRDFEVKDLLSLTQFFGFDTETFSL
AVNLLDRFLSKMKVQPKHLGCVGLSCFYLA VKSIEEERNVPLATDLIRISQYRFTVSDLMRMEKIVLEKVCWKVK
ATTAFQFLQLYYSLLQENLPLERRNSINFERLEAQLKACHCRIIFS KAKPSVLALSIIALEIQAQKVELTEGIE
CLQKHSKINGRDLTFWQELVSKCLTEYSSNKCSKPNVQKLKWI VSGRTARQLKHSYYRITHLPTIPEMVP

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FIGURE 1793A

GTAGAGTTAAGGAAGGGCCTCTTCCTCTGTGAGAATTCAGCATTTTGCAACCATCCAAAAATGTTGAGGGCATGC
TTTGCTTCCAGGGCAGACAGAGCAGCACAGTGAGCATGGGACACAGGATCCCTGACTTGCTGTGTGCCCTTAAAC
CAGCCACTACCTCTCTGACGTTCAAATTTAGCAATGGAAGGCAGCCTGCCCAACTGTTACCTGCCTGTCAATCAT
GAAAGCCTGCGGATGAGTGCAGAAATACAGAACTGCAGCCATGACCACGCACGTACCCCTGGAAGATGCCCTGTC
CAACGTGGACCTGCTTGAAGAGCTTCCCCTCCCCGACCAGCAGCCATGCATCGAGCCTCCACCTTCTCCATCAT
GTACCAGGCTAACTTTGACACAACTTTGAGGACAGGAATGCATTTGTACGGGCATTGCAAGGTACATTGAGCA
GGCTACAGTCCACTCCAGCATGAATGAGATGCTGGAGGAAGGACATGAGTATGCGGTTCATGCTGTACCTGGCG
CAGCTGTTCCCGGGCCATTCCCAGGTGAAATGCAACGAGCAGCCCAACCGAGTAGAGATCTATGAGAAGACAGTA
GAGGTGCTGGAGCCGGAGGTACCAAGCTCATGAAGTTTCATGTATTTTCAGCGCAAGGCCATCGAGCGGTTCTGC
AGCGAGGTGAAGCGGCTGTGCCATGCCGAGCGCAGGAAGGACTTTGTCTCTGAGGCCTACCTCCTGACCCCTGGC
AAGTTCATCAACATGTTTGTCTGTCTGGATGAGCTAAAGAACATGAAGTGCAGCGTCAAGAATGACCACTCTGCC
TACAAGAGGGCAGACAGTTTCTGCGGAAGATGGCAGATCCCCAGTCTATCCAGGAGTCGCAGAACCTTTCCATG
TTCTTGCCCAACCACAACAGGATCACCCAGTGTCTCCACCAGCAACTTGAAGTGATCCAGGCTATGAGGAGCTG
CTGGCTGACATTGTCAACATCTGTGTGGATTACTACGAGAACAAGATGTACCTGACTCCCAGTGAGAAACATATG
CTCCTCAAGGTGATGGGCTTTGGCCTCTACCTAATGATGGAAATGTGAGTAACATTTACAAACTGGATGCCAAG
AAGAGAATTAATCTTAGCAAAATTGATAAATCTTTAAGCAGCTGCAGGTGGTGGCCCTTTTCGGCGACATGCAG
ATAGAGCTGGCCAGATACATTAAGACCAGTGCTCACTATGAAGAGAACAAGTCCAAGTGGACGTGCACCCAGAGC
AGCATCAGCCCCAGTACAATATCTGCGAGCAGATGGTTTCAGATCCGGGATGACCACATCCGCTTCATCTCCGAG
CTCGCTCGCTACAGCAACAGTGAGGTGGTGACGGGCTCAGGGCTGGACAGCCAGAAGTCAGACGAGGAGTATCGC
GAGCTCTTCGACCTAGCCCTGCGGGGTCTGCAGCTTCTATCCAAGTGGAGCGCCACGTATGGAGGTGTACTCT
TGAAGCTGGTTTCATCCACAGACAAGTTCTGCAACAAGGACTGTCTGGCACCGCGGAGGAATATGAGAGAGCC
ACACGCTACAATTACACCAAGTGAGGAAAAATTTGCCTTCGTTGAGGTGATCGCCATGATCAAAGGCCTGCAGGTG
CTCATGGGCAGGATGGAGAGCGTCTTCAACCAGGCCATCAGGAACACCATCTACGCGGCATTGCAGGACTTCGCC
CAGGTGACGCTGCGTGAGCCCCCTGCGGCAGGCGGTACGGAAGAAGAAGATGTCTCATCAGCGTCTTACAGGCA
ATTGCAAGAGACCATCTGTGACTGGGAGGGAGGGCGAGAGCCCCCTAATGACCCATGCTTGAGAGGGGAGAAGGAC
CCCAAGGTGGATTTGATATCAAGGTGCCCCGGCGTGCTGTGGGGCCATCCAGCACACAGCTGTACATGGTGCGG
ACCATGCTTGAATCACTCATTGCAGACAAAAGCGGCTCCAAGAAGACCCTGAGGAGCAGCCTGGATGGACCCATT
GTCCTCGCCATAGAGGACTTTCAAAACAGTCTTCTTCTTCAACATCTGCTCAACATCAGTGAAGCCCTGCAG
CAGTGTGTGACCTCTCCAGCTCTGGTTCCGAGAATCTTCTCTGGAGTTAACCATGGGCGCAGCAATCCAGTTC
CCCATCGAGATGTCCATGCCCTGGATTCTAACGGACCATATCCTGGAAACCAAAGAACCTTCCATGATGGAGTAT
GTCCTCTACCCTCTGGATCTGTACAACGACAGCGCCTACTATGCTCTGACCAAGTTTAAAAAGCAGTTCTCTGTAC
GATGAGATAGAAGCTGAGGTGAACCTGTGTTTGTATCAGTTTGTCTACAAGCTGGCAGACCAGATCTTTGCTTAC
TACAAAGCCATGGCTGGCAGTGTCTGTGGATAAACGTTTTCGAGCTGAGTGTAAAGATTATGGCGTCATCATT
CCGTATCCACCGTCCAATCGCTATGAAACACTGCTGAAGCAGAGACACGTCCAGCTGTTGGGTAGATCAATTGAC
TTGAACAGACTCATTACCCAGCGCATCTCTGCCGCCATGTATAATCCTTGGACCAAGCTATCAGCCGCTTTGAG
AGTGAGGACCTGACCTCCATTGTGGAGCTGGAGTGGCTGCTGGAGATTAAACGGCTCACGCATCGGCTGCTCTGT
AAGCATATGACGCTGGACAGCTTCGATGCCATGTTCCGAGAGGCCAATCACAATGTGTCCGCCCTTATGGCCGT
ATCACCCCTGCATGTCTTCTGGGAAGTGAAGTTTCTCTCCCAACTACTGCTACAATGGGTCCAATAACCGT
TTTGTGCGGACTGCCATTCCTTTCACCCAAGAACCAACGAGACAAACCTGCCAACGTCCAGCCTTATTACCTC
TATGGATCCAAGCCTCTCAACATTGCCTACAGCCACATCTACAGCTCCTACAGGAATTTCTGTTGGGCCACCTCAT
TTCAAGACTATCTGCAGACTCCTGGGTTATCAGGGCATCGCTGTGGTCATGGAGGAAGTCTAAAGATTGTGAAG
AGCTTGCTCCAAGGAACCATCTCCAGTATGTGAAAACACTGTAGAGGTGATGCCAAGATATGCCGCTTGCCC
CGACATGAGTATGGCTCCCCAGGGATCCTGGAGTTCTTCCACCACAGCTGAAGGACATCATTGAGTACGCAGAG
CTCAAAACAGACGTGTTCCAGAGCCTGAGGGAAGTGGGCAATGCCATCCTCTTCTGCTCCTCATAGAGCAAGCT
CTGTCTCAGGAGGAGGTCTGCGATTGCTCCATGCCGCACCCTTCCAAACATCTTGCCTAGAGTCTACATCAA
GAGGGGGAGCGCCTGGAGGTCCGGATGAAACGCTCTGGAAGCCAAGTATGCCCGCTCCACCTGGTCCCTCTGATC
GAGCGGCTGGGGACCCCTCAGCAAATCGCCATTGCTCGCGAGGGTGACCTCCTGACCAAGGAGCGGCTGTGCTGT
GGCCTGTCCATGTTTCGAGGTTCATCTGACCCGCAATTCGAGCTACCTGCAGGACCCCATCTGGCGGGGCCACCG

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FIGURE 1793B

CCCACCAATGGCGTCATGCACGTCGATGAGTGTGTGGAGTTCACCGGCTGTGGAGCGCCATGCAGTTCGTGTAC
TGCATCCCTGTGGGAACCAACGAGTTCACAGCTGAGCAGTGTTCGGCGATGGCTTGAAGTGGGCTGGTTGCTCC
ATCATTGTCTGCTGGGCCAGCAGCGTCGCTTTGACCTGTTGACTTCTGTTACCACCTGCTAAAAGTGCAGAGG
CAGGACGGGAAGGATGAAATCATTAAAGTGTGCCCTGAAGAAGATGGCCGACCGGATCAGGAAGTATCAGATC
TTGAACAATGAGGTTTTTGCCATCCTGAACAAATACATGAAGTCCGTGGAGACAGACAGTTCCTGTGGAGCAT
GTGCGCTGCTTCCAGCCACCCATCCACCAGTCCTTGGCCACCACTTGCTAAGCAGAAGATCCTGCAGACCCTTAT
CTGGAGGAGGAAGAGAAGCAGGAGAGAGAAAGCCACAGCCAGCCTGCCATAGGATCCAAGTGGACAACGTGTGGG
ATGGACCTGGAAACAAGCACCTCCCCAAACACATCACCACCTCCCTAGGGCGGGGCTGTGCATGCTCTCCCATGA
CATCTCCATGCTGGTTTCTCCATAGCATAAATGAAAAAAAAAAAAAAAAAGTAAACAGGGCAGTGTGTGCTTTT
CTTTTCTCCCCCTCAACTATATTAAGAACTCCTAGTTTCACCCTTTCTCCATCCCATCATCCCACCTATCTGTG
GTTGCTTCCCAAGACCT

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FIGURE 1794

MKFMVFQRKAIERFCSEVKRLCHAERRKDFVSEAYLLTLGKFINMFAVLDELKNMKCSVKNDHSAYKRAAQFLRK
MADPQSIQESQNL SMFLANHNRI TQCLHQQLEVIPGYEELLADIVNICVDYYENKMYLTPSEKHMLLKVMGFGLY
LMDGNVSNYIKLDAKKRINLSKIDKFFKQLQVVP LFGDMQIELARYIKTSAHYEENKSKWTCTQSSISPQYNICE
QMVQIRDDHIRFISELARYSNSEVVTGSGLDSQKSDEEYRELFDLALRGLQLLSKWSAHVMEVYSWKL VHP TDKF
CNKDCPGTAEEYERATRYNYTSEEKFAFVEVIAMIKGLQVLMGRMESVFNQAIRNTIYAALQDFAQVTLREPLRQ
AVRKKKNVLISVLQAIRKTICDWEGGREPPNDPCLRGEKDPKGGFDIKVPRRAVGPSSTQLYMVRTMLES LIADK
SGSKKTLRSSLDGP IVLAIEDFHKQSFFFT HLLNISEALQCCDLSQLWFFREFFLELTMGRRIQFPIEMSMPWIL
TDHILETKEPSMMEYVLYPLDLYNDSAYYALTKFKKQFLYDEIEAEVNLCFDQFVYKLADQIFAYYKAMAGSVLL
DKRFRAECKNYGVII PYPPSNRYETLLKQRHVQLLGRSIDLNR LITQRISAAMYKSLDQAISRFESEDLT SIVEL
EWLLEINRLTHRL LCKHMTLDSFDAMFREANHNVSAPYGRITLHVFWELNFDLPNYCYNGSTNR FVRTAIPFTQ
EPQRDKPANVQPYLYGSKPLNIAYSHIYSSYRNFVGP PPHFTICRLLGYQGI AVVMEELLKIVKSLLQGTILQY
VKTLIEVMPKICRLPRHEYGSPGILEFFHHQLKDIEYAELKTDVFQSLREVGNAILFCLLIEQALSQEEVCDLL
HAAPFQNILPRVYIKEGERLEVRMKRLEAKYAPLHLVPLIERLGT PQQIAIAREGDLLTKERLCCGLSMFEVILT
RIRSYLQDPIWRGPPPTNGVMHVDECVEFHRLWSAMQFVYCI PVGTNEFTAEQCFGDGLNWAGCSIIVLLGQQR
FDLDFCYHLLKVQRQDGKDEI IKNVPLKKMADRIRKYQILNNEVFAILNKYMKSVETDSSTVEHVRCFQPP IHQ
SLATTC

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FIGURE 1795

GCGGCCTCAGATGAATGCGGCTGTTAAGACCTGCAATAATCCAGAAATGGCTACTCTGATCTATGTTGATAAGGAA
AATGGAGAACCAGGCACCCGTGTGGTTGCTAAGGATGGGCTGAAGCTGGGGTCTGGACCTTCAATCAAAGCCTTA
GATGGGAGATCTCAAGTTTCAACACCACGTTTTGGCAAAACGTTTCGATGCCCCACCAGCCTTACCTAAAGCTACT
AGAAAGGCTTTGGGAACTGTCAACAGAGCTACAGAAAAGTCTGTAAAGACCAAGGGACCCCTCAAACAAAAACAG
CCAAGCTTTTCTGCCAAAAAGATGACTGAGAAGACTGTTAAAGCAAAAAGCTCTGTTTCCTGCCTCAGATGATGCC
TATCCAGAAATAGAAAAATTCTTCCCTTCAATCCTCTAGACTTTGAGAGTTTGACCTGCCTGAAGAGCACCAG
ATTGCGCACCTCCCCTTGAGTGGAGTGCCTCTCATGATCCTTGACGAGGAGAGAGAGCTTGAAAAGCTGTTTCAG
CTGGGCCCCCCTTACCTGTGAAGATGCCCTCTCCACCATGGGAATCCAATCTGTTGCAGTCTCCTTCAAGCATT
CTGTCGACCCTGGATGTTGAATTGCCACCTGTTTGCTGTGACATAGATATTAAATTTCCTTAGTGCTTCAGAGTT
TGTGTGTATTTGTATTATAAAGCATTCTTCAACAGAAAAAAAAAAAAAAAAAAAA

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FIGURE 1796

MATLIYVDKENGEPGTRVVÅKDGLKLGSGPSIKALDGRSQVSTPRFGKTFDAPPALPKATRKALGTVNRATEKSV
KTKGPLKQKQPSFSAKKMTEKTVKAKSSVPASDDAYPEIEKFFPFNPLDFESFDLP EEHQIAHLPLSGVPLMILD
EERELEKLFQLGPPSPVKMPSPPWESNLLQSPSSILSTLDVELPPVCCDIDI

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FIGURE 1797

ATGGCCCTGGAGTTTCTCCCTCAGACTAAGAACCATCCACCAGTAGCAGAACTACATCCTCAGGGGGGGTTTTTC
TTCGTGAATGCAAATGTCCCGGCACCTAAACGGTTCACATTACCGCAGGTGATTTCTGCAGCTGTAATAAGTTC
CATCCTCAGCAAGAATCAGAACCACCAGAGACAGAGCAGAGAGACACCATGCCCTCACTTGCGAGAGTTCAAATG
GCACTTTCTTGAAAAAGAAGATTGGGTGTTACAGCTTTCTGAGCAACAACGATACAAAGTGGATGCAATTCAT
CCATCGTCTCTGAAAAGTCTTCGACCATTGCATGAGATTGTAGAGGAAGACAGGCACAGGAAGACCAAACAGCGT
GTAGAGGATACGAAGATTGGCTACCCAACCTGTTGCATCAGTACCCCATTTCTATCATCAACGGGTACAAACGAGTC
CTGGCCTTGTCTGTGGAGACGGATTACACCTTCCCACTCGCTGAAAAGGTCAAGGCCTTCTTGGCTGATCCATCT
GCCTTTGGCTTTGATGTTTCAAGCAATGCTGGGTCAACCCAACCACTCAGCACATTCACTGGACCTGGTCGTGCC
CAAGCTCCTCCACTGCATGATTGAGATTGAGATAG

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FIGURE 1798A

GCAACTGGACAACAACCACATCAGCTGCATTGAAGATGGAGCCTTCCGAGCGCTGCGCGATTGGAGATCCTTAC
CCTCAACAACAACAACATCAGTCGCATCCTGGTCACCAGCTTCAACCACATGCCGAAGATCCGAACCTGCGCCT
CCACTCCAACCACCTGTACTGCGACTGCCACCTGGCCTGGCTCTCGGATTGGCTGCGACAGCGACGAGATTGG
CCAGTTCACACTCTGCATGGCTCCTGTGCATTTGAGGGGCTTCAACGTGGCGGATGTGCAGAAGAAGGAGTACGT
GTGCCAGCCCCCACTCGGAGCCCCATCCTGCAATGCCAACTCCATCTCCTGCCCTTCGCCCTGCACGTGCAG
CAATAACATCGTGGACTGTGAGGAAAGGGCTTGATGGAGATTCTTGCCAACTTGCCGGAGGGCATCGTCGAAAT
ACGCCTAGAACAGAACTCCATCAAAGCCATCCCTGCAGGAGCCTTCACCCAGTACAAGAACTGAAGCGAATAGA
CATCAGCAAGAATCAGATATCGGATATTGCTCCAGATGCCCTCCAGGGCCTGAAATCACTCACATCGCTGGTCTT
GTATGGGAACAAGATCACCGAGATTGTCAAGGGACTGTTTGATGGGCTGGTGTCCCTACAGCTGCTCCTCTCAA
TGCCAACAAGATCAACTGCCTGCGGTGAACACGTTTCAGGACCTGCAGAACCTCAACTTGCTCTCCCTGTATGA
CAACAAGCTGCAGACCATCAGCAAGGGGCTCTTCGCCCCCTGTCAGTCCATCCAGACACTCCACTTAGCCAAAA
CCCATTGTGTGCGACTGCCACTTGAAGTGGCTGGCCGACTACCTCCAGGACAACCCCATCGAGACAAGCGGGGC
CCGCTGCAGCAGCCCGCGCCGACTCGCCAACAAGCGCATCAGCCAGATCAAGAGCAAGAAGTTCGGCTGCTCAGG
CTCCGAGGATTACCGCAGCAGGTTACGACGCGAGTGCTTCATGGACCTCGTGTGCCCGGAGAAGTGTGCTGTGA
GGGCACGATTGTGGACTGCTCCAACCAGAAGCTGGTCCGCATCCCAAGCCACCTCCCTGAATATGTACCCGACCT
GCGACTGAATGACAATGAGGTATCTGTTCTGGAGGCCACTGGCATCTTCAAGAAGTGGCCAACCTGCGGAAAAAT
AAATCTGAGTAACAATAAGATCAAGGAGGTGCGAGAGGGAGCTTTCGATGGAGCAGCCAGCGTGCAGGAGCTGAT
GCTGACAGGGAACAGCTGGAGACCGTGCACGGGCGCGTGTTCGGTGGCCTCAGTGGCCTCAAAACCTTGATGCT
GAGGAGTAACTTGATCGGCTGTGTGAGTAATGACACCTTTGCCGGCCTGAGTTCCGTGAGACTGCTGTCCCTCTA
TGACAATCGGATCACCACCATCACCCCTGGGGCCTTCACCACGCTTGTCTCCCTGTCCACCATAAACCTCCTGTC
CAACCCCTTCAACTGCAACTGCCACCTGGCCTGGCTCGGCAAGTGGTTGAGGAAGAGCGGATCGTCAGTGGGAA
CCCTAGGTGCCAGAAGCCATTTTCTCAAGGAGATTCCCATCCAGGATGTGGCCATCCAGGACTTCACCTGTGA
TGGCAACGAGGAGAGTAGCTGCCAGCTGAGCCCGCGCTGCCCGAGCAGTGCACCTGTATGGAGACAGTGGTGCG
ATGCAGCAACAAGGGGCTCCGCGCCCTCCCCAGAGGCATGCCCAAGGATGTGACCGAGCTGTACCTGGAAGGAAA
CCACCTAACAGCCGTGCCAGAGAGCTGTCCGCCCTCCGACACCTGACGCTTATTGACCTGAGCAACAACAGCAT
CAGCATGCTGACCAATTACACCTTCAGTAACATGTCTCACCTCTCCACTCTGATCCTGAGCTACAACCGGCTGAG
GTGCATCCCCGTCCACGCCTTCAACGGGCTGCGGTCCCTGCGAGTGCTAACCCCTCCATGGCAATGACATTTCCAG
CTGTCAGTCTTCGGTGGCTGTGCGAGTGGGTGAAGGCGGGGTACAAGGAGCCTGGCATCGCCGCTGCAGTAGCCC
TGAGCCCATGGCTGACAGGCTCCTGTCAACACCCCAACCCACCGCTTCCAGTGCAAAGGGCCAGTGGACATCAA
CATTGTGGCCAAATGCAATGCCCTGCCTCTCCAGCCCTGCAAGAATAACGGGACATGCACCCAGGACCCTGTGGA
GCTGTACCGCTGTGCCTGCCCCCTACAGCTACAAGGGCAAGGACTGCACCTGTGCCCATCAACACCTGCATCCAGAA
CCCCTGTACAGATGGAGGCACCTGCCACCTGAGTGACAGCCACAAGGATGGGTTCAGCTGCTCCTGCCCTCTGGG
CTTTGAGGGGACGCGGTGTGAGATCAACCCAGATGACTGTGAGGACAACGACTGCGAAAACAATGCCACCTGCGT
GGACGGGATCAACAATACTACGTGTGTATCTGTCCGCTAACTACACAGGTGAGCTATGCGACGAGGTGATTGACCA
CTGTGTGCTGAGCTGAACCTCTGTACGATGAGGCCAAGTGCATCCCCCTGGACAAAGGATTACGCTGCGAGTG
TGTCCTGGCTACAGCGGGAAGCTCTGTGAGACAGACAATGATGACTGTGTGGCCCAAGTGCCGCCACGGGGC
CCAGTGGCTGGACACAATCAATGGCTACACATGCACCTGCCCCAGGGCTTCAGTGGACCCTTCTGTGAACACCC
CCCCCATGGTCTTACTGCGAGACCAGCCATGCGACCACTACGAGTGCCAGAACGGGGCCAGTGCATCGTGGT
GCAGCAGGAGCCACCTGCCGCTGCCACCAAGGCTTCGCGGGCCCCAGATGCGAGAAGCTCATCACTGTCAACTT
CGTGGGCAAAGACTCTTACGTGGAATGGCCTCCGCCAAGGTCCGACCCAGGCCAACATCTCCCTGCAGGTGGC
CACTGACAAGGACAACGGCATCCTTCTCTACAAGGAGACAATGACCCCTGGCACTGGAGCTGTACCAGGGCCA
CGTGGGCTGGTCTATGACAGCCTGAGTTCCCTCCAACCACAGTGTACAGTGTGGAGACAGTGAATGATGGGCA
GTTTACAGTGTGGAGTGGTGACGCTAAACCAGACCCTGAACCTAGTAGTGGACAAAGGAACTCCAAGAGCCT
GGGGAAGCTCCAGAAGCAGCCAGCAGTGGGCATCAACAGCCCCCTCTACCTTGGAGGCATCCCCACCTCCACCGG
CCTCTCTGCTTGGCCAGGGCACGGACCGGCTCTAGGCGGCTTCCACGGATGCATCCATGAGGTGCGCATCAA
CAACGAGCTGCAGGACTTCAAGGCCCTCCACACAGTCCCTGGGGGTGTACACAGGCTGCAAGTCTGCACCGT
GTGCAAGCACGGCCTGTGCCGCTCCGTGGAGAAGGACAGCGTGGTGTGCGAGTGCCGCCAGGCTGGACCGGCC

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FIGURE 1798B

ACTCTGCGATCAGGAGGCCCGGGACCCCTGCCTCGGCCACAGATGCCACCATGGAAAATGTGTGGCAACTGGGAC
CTCATACATGTGCAAGTGTGCCGAGGGCTATGGAGGGGACTTGTGTGACAACAAGAATGACTCTGCCAATGCCTG
CTCAGCCTTCAAGTGTACCATGGGCAGTGCCACATCTCAGACCAAGGGGAGCCCTACTGCCTGTGCCAGCCCGG
CTTTAGCGGCGAGCACTGCCAACAAGAGAATCCGTGCCTGGGACAAGTAGTCCGAGAGGTGATCCGCCGCCAGAA
AGGTTATGCATCATGTGCCACAGCCTCCAAGGTGCCCATCATGGAATGTCGTGGGGGCTGTGGGCCCCAGTGCTG
CCAGCCCACCCGAGCAAGCGGCGGAAATACGTCTTCCAGTGACGACGGACGGCTCCTCGTTTGTAGAAGAGGTGGA
GAGACACTTAGAGTGC GGCTGCCTCGCGTGTTCCTAAGCCCTGCCCGCCTGCCTGCCACCTCTCGGACTCCAGC
TTGATGGAGTTGGGACAGCCATGTGGGACCCCTGGTGATTCAGCATGAAGGAAATGAAGCTGGAGAGGAAGGTA
AAGAAGAAGAGAATATTAAGTATATTGTAAAATAAACAAAAAATAGAACTTATTTTATTATGGAAA

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FIGURE 1799

GCCATGGGCGCGCGCCCGCCTGTTGTTACCGGTATTGTAAGAACAAGCCGTACCCAAAGTCTCGCTTCTGCCGA
GGTGTCCTTGATGCCAAGATTGCGATTTTTGACCTGGGGCGGAAAAAGGCAAAAGTGGATGAGTTTCCACTTTGT
GGCCACATGGTGTGAGATGAATATGAGCAGCTGTCCTCTGAAGCCCTGGAGGCTGCCC GAATTTGTGCCAATAAG
TACATGGTAAAAAGTTGTGGCAAAGATGGCTTCCATATCCGGGTGCGGCTCCACTCCTTCCACGTCATCCGCATC
AACAAGATGTTGTCTGTGCTGGGGCTGACAGGCTCCAAACAGGCATGCGAGGTGCCTTTGGAAAGCCCCAGGGC
ACTTTGGCCAGGGTTCACACTGGCCAAGTTATCATGTCCATCCGCACCAAGCTGCAGAACAAGGAGCATGTGATT
GAGGCCCTGGGCAGGGCCAAGTTCAAGTTTCTGGCCGCCAGAAGATCCACATCTCAAAGAAGTGGGGCTTCACC
AAGTTCAATGCTGATGAATTTGAAGACATGGTGGCTGAAAAGCGGCTCATCCCAGATGGCTGTGGGGTCAAGTAC
ATCCCCAATCGTGGCCCTCTGGACAAGTGGCGGGCCCTGCACTCATGAGGGCTTCCAATGTGCTGCCCCCTCTT
AATACTACCAATAAATTCTACTAACTCTCCAAAAAAAAAAAAAAAAAATAGAAAAAAAAAAAAAAAAAATAGACCAA
AAAAAAAAAAAAAAAAA

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FIGURE 1800

GGCACGAGGGTGAGACGCTGATGGGAGGATGGACGTA CTGGTGTCTGAGTGTCTCCGCGGGCTGCTGCAGCAGGA
AGAAGAGATTAAATCTCTGACTGCTGAAATTGACCGGTTGAAAACTGTGGCTGTTTAGGAGCTTCTCCAAATTT
GGAGCAGTTACAAGAAGAAAATTTAAATTAAGTATCGACTGAATATTCTTCGAAAGAGTCTTCAGGCAGAAAG
GAACAAACCACTAAAAATATGATTAACATTATTAGCCGCCTACAAGAGGTCTTTGGTCATGCAATTAAGGCTGC
ATATCCAGATTGGAAAATCCTCCTCTGCTAGTGACACCAAGTCAGCAGGCCAAGTTGGGGACTATCAGTGTA
TAGTGCTATGGGTATTTCTCAGATGCTCAAAACCAAGGAACAGAAAGTTAATCCAAGAGAAATTGCTGAAAACAT
TACCAAACACCTCCCAGACAATGAATGTATTGAAAAAGTTGAAATTGCTGGTCCTGGTTTTATTAAATGTCCACTT
AAGAAAGGATTTTGTATCAGAACAATTGACCAGTCTTCTAGTGAATGGAGTTCAACTACCTGCTCTGGGAGAGAA
TAAAAAGGTTATAGTTGACTTTTCTCCCTAATATAGCTAAAGAGATGCATGTAGGCCACCTGAGGTCAACTAT
CATAGGAGAGAGTATAAGCCGCCTCTTTGAATTTGCAGGGTATGACGTGCTCAGGTTAAATCATGTAGGAGACTG
GGGGACCCAGTTTGGCATGCTCATCGCTCACCTGCAAGACAAATTTCCAGATTATCTAACAGTTTTACCTCTAT
TGGGGATCTTCAGGTCTTTTATAAGGAATCTAAGAAGAGGTTTGATACTGAGGAGGAATTTAAGAAGCGAGCATA
TCAGTGTGTAGTTCTGCTCCAGGGTAAAAACCCAGATATTACAAAAGCTTGGAAGCTTATCTGTGATGTCTCCCG
CCAAGAGTTAAATAAAATCTATGATGCATTGGACGTCCTTTAATAGAGAGAGGGGAATCCTTCTATCAAGATAG
GATGAATGATATTGTAAAGGAATTTGAAGATAGAGGATTGTGTCAGGTGGATGATGGCAGAAAGATTGTATTTGT
CCCAGGGTGTTCCATACCATTAACCATAGTAAATCAGATGGAGGTTATACCTATGATACATCTGACCTGGCTGC
TATTAAACAAAGACTATTTGAGGAAAAAGCAGATATGATTATCTATGTTGTGGACAATGGACAATCTGTGCACTT
CCAGACAATATTTGCTGCTGCTCAAATGATTGGTTGGTATGACCCCTAAAGTAACTCGAGTCTTCCATGCTGGATT
TGGTGTGGTGCTAGGGGAAGACAAGAAAAAGTTTAAACACGTTTCGGGTGAAACAGTGC GCCTCATGGATCTTCT
GGGAGAAGGACTAAACGATCCATGGACAAGTTGAAGGAAAAAGAAAGAGACAAGGTCTTAACTGCAGAGGAATT
GAATGCTGCTCAGACATCCGTTGCATATGGCTGCATCAAATATGCTGACCTTTCCCATAAACCGGTTGAATGACTA
CATCTTCTCCTTTGACAAAATGCTAGATGACAGAGGAAATACAGCTGCTTACTTGTGTATGCCTTCACTAGAAT
CAGGTCTATTGCACGCTCTGGCCAATATTGATGAAGAAATGCTCCAAAAGCTGCTCGAGAAACCAAGATTCTTTT
GGATCATGAGAAGGAATGGAACTAGGCCGGTGCAATTTACGGTTCCCTGAGATTCTGCAAAAGATTTTAGATGA
CTTATTTCTCCACACTCTCTGTGATTATATATATAGCTGGCAACTGCTTTACAGAGTTCTATGATAGCTGCTA
CTGTGTGGAGAAAGATAGACAGACTGGAAAAATATTGAAGGTGAACATGTGGCGTATGCTGCTATGTGAAGCAGT
AGCTGCTGTGTCATGGCCAAGGGGTTTGATATCCTGGGAATAAAACCTGTCCAAAGGATGTAATCCTTCATAGGTTT
GAACACTGTGTGTTTTTACCAAAGTGGCCATTGGCACTGTTTGCTTTTTTACAATCATGTGGACACAAGCATAAG
TAAAGAAAATTTGTCAACCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1801

MDVLVSECSARLLQEEEEIKSLTAEIDRLKNCGCLGASPNLEQLQEENLKLKYRLNILRKSLQAERNKPTKNMIN
IISRLQEVFGHAIIKAAYPDLENPPLLVTSPQAKFGDYQCNSAMGISQMLKTKEQKVNPREIAENITKHLPDNEC
IEKVEIAGPGFINVHLRKDFVSEQLTSLLVNGVQLPALGENKKVIVDFSSPNIAKEMHVGHRLRSTIIGESISRLF
EFAGYDVLRLNHVGDWGTQFGMLIAHLQDKFPDYLTVSPPIGDLQVFYKESKKRFDTEEEFKKRAYQCVVLLQGK
NPDITKAWKLICDVSRLQELNKIYDALDVSLIERGESFYQDRMNDIVKEFEDRGFVQVDDGRKIVFVPGCSIPLTI
VKSDGGYTYDTSDLAAIKQRLFEEKADMIYVVDNGQSVHFQTIFAAAQMIGWYDPKVTRVTFHAGFGVVLGEDKK
KFKTRSGETVRLMDLLGEGLRSMCKLKEKERDKVLTAEELNAAQTSVAYGCIKYADLSHNRINDYIFSFDKMLD
DRGNTAAYLLYAFTRIRSIARLANIDEEMLQKAARETKILLDHEKEWKLGRCILRFPEILQKILDDFLHTLCDY
IYELATAFTEFYDSCYCVEKDRQTGKILKVNMRMLLCEAVAAMAKGFDILGIKPVQRM

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FIGURE 1802

CAGTTCACAGTGTTTCATCAGGCGAGATACTTTTGGACCCACAAAGCCAGTTTTTTGGGGGGATGCTCAGTGTCTA
CCTGCAGTGCCAAAGTTTTGCTTGAACAGCCCTCTTCTGCCGCGCCTCCCAGCTCCACCCCTATCACGTGGGTG
CTGGCTGCTTCTGCGTGAGGAGCTTCCCTGTATCACCTGTAGCATCTTTAGTGCCTTCGTCCAGTCGGCCTGCAA
ATCCCATTTCCAGAGAGGCTTGGGCAGGGCCCACTTGCCACTTGCCCTGTGCCAGAGCGTTGGGGGCAGATG
GCAGCCAGGGGAAGAAGGGAGGTGGGGAAGGGCCGCCACCGCTTGAGGGTCCCTCCCTTGAGAGGAGGCCCCAT
GGCAGTTTTCTGAGTTCCTGTATCCACTTTGGTTTAAACAACCTTTGTGAAGCTATGTGAGATTTGACTGCATTT
CAAAAGACAAAACACATGTTTTTTCTGATTGCTCTTTGCCCTTCAGCGACGCTTCAGATACTTTGTGAGTGT
CTACTCTGTGCTAGGTGCTGAGTAGACTGGGATGTGTGTGGCTCCATCCCTGGCTGGAAGAGCTTTGAGTCTGT
CTGCTGACTTCACTGAAGGAGTTTCTCTCTTGCCTTCATTCTTCCCTCCCGGGGTCAGCTGGGTAGGAGCAGACT
TGCCCTGCCTTCCCTCTAGGCAGAAAGTTTTCTTGCAAATGAAAGAATCTGCCATTCCTTTTTGCTATGATGATGA
TGATTATTCTGACATGACCCGCGGGTACTGAAGCCACAGTCCCTCTGTTCAGTGTCTCTCTCTGAGTCATATC
TATGGCCTGAGGACGCTGTATCCAGCTCCCTTTTCTTACAATGGTAGACACTTCCCCAGGCAGTGGGTGGGTGAG
GGTGGCCAGTCACTCTCCTAGCTGTCTTGGCTGGGGACTTAGATTTACCCCATCCAGGACTGTGGTCCGTATTC
TGTGAGCGATTGATGGCGCATATGCAGAACTCCCTGGAGTCATGGCTCTAGAAAGTGTCCAGGCCCATCGTGAC
AATGGTGCCAAAGCACCAGGGCTGGTGACCAGTGCCATAACACACACGCTCCCTTAATCCTTACGGCAAGCCTGTGA
GGCGGATAGGACCAGCCCTGATCTATAGTGAGAAAATTAAGGTTTCAGAGGGAGAAGGTCCAAATAGTGCCAAGC
TGGGACTGAGATCTCGAGTTTGGGTTTGGTTTGGTTTGTGTGTGTCTTTCCCTCGTGTCATGACTTTCT
CTGCCATTAGCAGGGAAGTGTGCGGAGGGCTTCCAGGGAATCAAGTGACCCTCCCTCTGAATTTGGTGCCTCTT
CCCCCGCCCCCTTGCTCACACATTTAGTAGGTACAGGCCAAATGGCAGCCCAAAGGTGGGCAGAGATTTTTT
TTCTTTCCCTCACCCCTGCTTATTAACACAATTGTGACAACACTTTACCTTACATCCAGGGCAAACGGACAG
CTTGCGGTACCTCCAAAAATTTGGAAAACCTGAGTCTAAGACCACCTCTTGATAAAAGAGGCCTTTGCTCATAT
GTTCTGCTCGGAATCTTTCTTTGCCATTGGTGGGTGTATGTCGTCCAGCTGAGACTGCGGGAGAGCTGAGCTCC
AGCTTAAACCGCTTTTAATGGCCCTTCCCTACTGGGGGATCGCTGGAGCCCATGCCAGGTACGGTAGTCATTTT
AAACCTCTGCCACAAGGCCACGCCATAGAATCAATTTCCAAGTCAATGTTCTTGGCCCTAAAATGTTTGGCCCCA
CTGAGGATTTTATTACCAGGTGGAAGATGGGGGAACATATGCCACGTTAAAGAGCAAGTGCTGAGTGTGCCAGGA
CTTGAGAAGGACCTTAGGCTGAGGAGTGGACAGTCTGGTATTTATTTGCGCTCTCCCAAGTACCCAGCAGAGT
GGGAAAAAGAAGAACTGCTCCTGCCCTTCCAGTAGCTGGCAACTTGACATCAAGAACAAAACATTTCGTAGCTGG
ACCCCGCTCCTTTTCATCGTGCCCAAGTCTTACATGTTGGCTTAAGCTGCCCCCTTGGAGGCCGTACCTTTCTCTT
TGGACTGTGACAGTGGACACCTAACAGCCTGAGCCATGTGTGGCTGTCTTATCCCCCAAGGGTGTGTCAGGCCCG
TTCTGCAGGGCTGTTGTGTAGACTGCAGACATCCATACCTCACCACAGACCAAAGATGACCTCGTGTGACAGTGT
GGGCTGATGAGAGGTAGAGCAGCATGCATCGAGGCCCTGAGGGTGCAGGGCGCCCTCTCTTGGCCTGGAGGAATTG
CTCCTAACTAGAGTAAGTTTCCACGAGGGTCCCAGGCAGAGCTGCAGAGCTGGAACCGGAGGCTCCACAGTCCTT
GCCTGCTCATGGACCTCCTTCAGAGCACCTTTCTACAGACTGGACTGCCAGCTCCGTGGGGTGGCATCTGGTTT
CTGGTGCTATTCTGCCAAGTTATCGAGCTCCTCCTCATGTTTCAACATTCCATCTTCCCGTTTCTATCCTCGACT
CCAAAGTAAGCCTTCTTAGCTCCAATCAGGGATGAGGGGCTCAACCTCTTCTGTCTCAAAGAGGCCAAACGCAG
TGCCACAGTCGGTAGCCTTCACTTTTAGATGTCTTATTCATGTAAAAAAGAAGGTGCCCCCACCAGGCTTACATC
AGCAATAAGCAATTCTAATGCAACGATGGTGTCCACATTTTACCCAGTGTGTGCCATGTATGCCTTTGTGCCC
GTGTAATTATTGTTAGCGCCCCCTTCACTTAGAGGGGTGATGATAAACTGTGGCCACCTTGATTACAACCCACAT
TTCTTGCTTTGGGGAGCTTCCAAGTAACAGGCCATTTCTTACCTCCCTCCAGGAACAGTGGGCACTGCCACCAC
CTCGTGTCTGCTCATAGGATGACGCTGGAGATCCCCACACTTACTCTACCTCTTGGCAAATTGGCATTCCGGTG
GTGGTTTTTGTTCCTTTAACACATTAAATAAATGAGTATATAGGATGTGAGGGGAGGGGTGAGAACAAGTAGCT
GTAGCATGTGTAGGCTATATACTTTACCATTGACTTCTTTCTTTTTTTTTTTTTTAAATAAAAAAGTGCTTGA
CTGGTTTCAAGCTTCATCATG

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FIGURE 1803

GGGGCCTGGTGTGATTCCGTCCTGCGCGGTTGTTCTCTGGAGCAGCGTTCTTTTATCTCCGTCCGCCTTCTCTCC
TACCTAAGTGCGTGCCGCCACCCGATGGAAGATTTCGATGGACATGGACATGAGCCCCCTGAGGCCCCAGAACTAT
CTTTTCGGTTGTGAACTAAAGGCCGACAAAGATTATCACTTTAAGGTGGATAATGATGAAAATGAGCACCAGTTA
TCTTTAAGAACGGTCAGTTTAGGGGCTGGTGCAAAGGATGAGTTGCACATTGTTGAAGCAGAGGCAATGAATTAC
GAAGGCAGTCCAATTAAAGTAACACTGGCAACTTTGAAAATGTCTGTACAGCCAACGGTTTCCCTTGGGGGCTTT
GAAATAACACCACCAGTGGTCTTAAGGTTGAAGTGTGGTTCAGGGCCAGTGCATATTAGTGGACAGCACTTAGTA
GCTGTGGAGGAAGATGCAGAGTCAGAAGATGAAGAGGAGGAGGATGTGAACTCTTAAGTATATCTGGAAAGCGG
TCTGCCCTGGAGGTGGTAGCAAGGTTCCACAGAAAAAGTAAACTTGCTGCTGATGAAGATGATGACGATGAT
GATGAAGAGGATGATGATGAAGATGATGATGATGATGATTTTGATGATGAGGAAGCTGAAGAAAAGCGCCAGTG
AAGAAATCTATACGAGATACTCCAGCCAAAAATGCACAAAAGTCAAATCAGAATGGAAGAACTCAAAACCATCA
TCAACACCAAGATCAAAAGGACAAGAATCCTTCAAGAAACAGGAAAAAACTCCTAAAAACACCAAAAGGACCTAGT
TCTGTAGAAGACATTAAAGCAAAAATGCAAGCAAGTATAGAAAAAGGTGGTTCTCTTCCCAAAGTGAAGCCAAA
TTCATCAATTATGTGAAGAATTGCTTCCGGATGACTGACCAAGAGGCTATTCAAGATCTCTGGCAGTGGAGGAAG
TCTCTTTAAGAAAATAGTTTAAACAATTTGTTAAAAAATTTCCGTCCTATTTCATTTCTGTAAACAGTTGATATC
TGGCTGTCCTTTTATAATGCAGAGTGAGAACTTTCCCTACCGTGTTTGATAAATGTTGTCCAGGTTCTATTGCC
AAGAATGTGTTGTCCAAATGCCTGTTTAGTTTTTAAAGATGGAATCCACCCTTGCTTGGTTTTAAGTATGTA
TGGAATGTTATGATAGGACATAGTAGTAGCGGTGCTCAGACATGGAAATGGTGGGAGACAAAAATACACATGTG
AAATAAACTCAGTATTTTAATAAAGTAAAAAAAAAAAAAAAAACCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1804

MEDSMDMDMSPLRPQNYLFGCELKADKDYHFKVDNDENEHQLSLRTVSLGAGAKDELHIVEAEAMNYEGSPIKVT
LATLKMSVQPTVSLGGFEITPPVVLRLKCGSGPVHISGQHLVAVEEDAESSEDEEEEDVKLLSISGKRSAPGGGSK
VPQKKVKLAADDDDDDEEDDDDDDDDFDDEEAEEKAPVKKSIRDTPAKNAQKSNQNGKDSKPSSTPRSKGQ
ESFKKQEKTPKTPKGPSSVEDIKAKMQASIEKGGSLPKVEAKFINYVKNCFRMTDQEAIQDLWQWRKSL

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FIGURE 1805

GGGCGGCGCCCAATGGGCTGCGCGGAGCGTCACTTCCCGGCAGCGGGAGGCGAGTGGCGAGTGGCGAGTGGCGAG
TGTCAGGGGGGCGGCCGGGGGGGGGGCGGGCGGCCGAGGAGGCGTTGGCAGCGGGCTCGGACCCACGCGGCGCCG
CGGCCCCGCTTGCCCTGCAGCGCTCCACCCCCGGCGCGGCACGATGCCCTTTGACTTCAGGAGGTTTGACATCT
ACAGGAAGGTGCCAAGGACCTTACGCAGCCAACGTACACGGGGGCCATTATCTCCATCTGCTGCTGCCTCTTCA
TCCTCTTCCTCTTCCTCTCGGAGCTACCGGATTTATAACGACAGAAGTTGTGAACGAGCTCTATGTCGATGACC
CAGACAAGGACAGCGGTGGCAAGATCGACGTCACTCTGAACATCAGTTTACCCAATCTGCACGTGCGAGTTGGTTG
GGCTTGACATTGAGATGAGATGGGCAGGCACGAAGTGGGCCACATCGACAACCTCCATGAAGATCCCCTGAAACA
ATGGGGCAGGCTGCCGCTTCGAGGGGCGAGTTGAGCATCAACAAGGTCCCCGGCAACTTCCAGCTGTCCACACACA
GTGCCACAGCCCAGCCACAGAACCCAGACATGACGCATGTTCATCCACAAGCTCTCCTTTGGGGACACGCTACAGG
TCCAGAACATCCACGGAGCTTTCAATGCTCTCGGGGGAGCAGACAGACTCACCTCCAACCCCTGGCCTCCCACG
ACTACATCCTGAAGATTGTGCCACGGTTTATGAGGACAAGAGTGGCAAGCAGCGGTACTCCTACCAGTACACGG
TGGCCAACAAGGAATACGTGCGCTACAGCCACACGGGCGCATCATCCCTGCAATCTGGTTCCGCTACGACCTCA
GCCCCATCACGGTCAAGTACACAGAGAGACGGCAGCCGCTGTACAGATTTCATCACCACGATCTGTGCCATCATTG
GCGGGACCTTCACCGTCGCCGGCATCCTGGACTCATGCATCTTCACAGCCTCTGAGGCCTGGAAGAAGATCCAGC
TGGGCAAGATGCATGACGCGCCACACCCAGCCTAATGGCCGAGGACCCTGGGCATCGCCAGCCTTGCTCCAGTGC
CCTGTCTCCTTTGGCCCTCAATCTGGTCCCAATCTGGCTGTGTCCCAAGGGTGTGTGGGAAGTGGGGGAAAG
TAGAGGATGGCTCGATGTTTTGCAGTACCTCTTTTCCCCGTGTTTCTTTTGTAGACAAATTACACTGCCTGAAGT
TGCAGTTCCCCCTTTCCCTGGGGAGCCCCAAGAACAGAGTCAGGCAAGGGGTGGGGAGTCCAGGGGAACATCCCAG
AATGCATATCGATCAGCTCTCAGCCAGGCTTCGACAATCTCGCAGCCCCCACTAGGTGGACACATTAATGATTTG
GTTTCTCCCCTGGGCAGCCAACCTGCCCCAGAGGCACCAAGCCTGGGCTTTCAGCTTTGGGACCAGGCTGCCCCAA
AGGTACTCCTTTATACACCCGGCACCTTCCACGAAAGATGGTACTTCCCAAGCAAGCCCCTATGATTTGTCTACTA
TAGATGGAAATGTGTGGCATGCACATGAGTTGAAATCTTTTATGCATTTTTTTGAAGAAAAAAAAAAAAACAAC
TCTGAGGACATAGGGGATGTGAGTTTCTATGGAAGAGACCTCTGACCCGTTATTCTTATAATCAAATCTGA
AGGGAAAAAATGTTTTAGTTCTTTCCCACTCGTTGGGTCAACTAGATTAAAAGGCTGATTTTCAG

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FIGURE 1806

MPFDFFRRFDIYRKVPKDLTQPTYTGAIISICCLFILFELSELTGFIITTEVVNELYVDDPKDSSGGKIDVSLNI
SLPNLHCELVLGLDIQDEMGRHEVGHIDNSMKIPLNNGAGCRFEGQFSINKVPGNFHVSTHSATAQPQNPDMTTHVI
HKLSFGDTLQVQNIHGAFNALGGADRLTSNPLASHDYILKIVPTVYEDKSGKQRYSYQYTVANKEYVAYSHTGRI
IPAIWFRYDLSPITVKYTERROPLYRFITTICAIIGGTFTVAGILDSCIFTASEAWKKIQLGKMH

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FIGURE 1807

ATGGCGTATCACGGCCTCACTGTGCCTCTCATTGTGATGAGCGTGTCTGGGGCTTCGTCGGCTTCTTGGTGCCT
TGGTTCATCCCTAAGGGTCCTAACCGGGGAGTTATCATTACCATGTTGGTGACCTGTTCAGTTTGCTGCTATCTC
TTAGCTAGTTTGAGCACAGGACATAATCACTTCCCAGGGGCCTGGGTGCACCGCTTTGGTTTCCAACCAACCAT
GACTCCATGAGCGTGAACCAGGACTATTCTGCTCACCTTGTGTCTGCACACAGTAGGTGCTTAACAAACACCTGG
GGTATCTTCAAGTCCATTCCCTCATCTGACCCTCACAGCAGCCCTCTGAGGAAGGCAGCCTGCACACTGGAGGAG
ACAGGTCTGCACTCAGCCATTCTGAAGACGGTAAAGTGAGAGCCCTGGATGCCATGGGGGCAAGGACCATATCT
GTTCTGCTTTTTTCTGAAGTCCCTGACCCAATTTGTGCCCGGTACATTGAAGAAGCTCAGGACATGGCTATTATT
TCAATCAAGCTGAAATCTACTGAGCTGAGCTGGCCCAACCAGGAATTCAAGATAAGACAGTAG

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FIGURE 1808A

GAAGCCGCCCCATCCCGCCCCAAGTGAGGAAGAGTATTACACCATCGCCGAATTCCAGACAACCATCCCAGACGG
CATCAGCTTCCAGGCAGGCCTGAAGGTCGAGGTGATCGAGAAAACTTGAGTGGCTGGTGGTACATTAGATTGA
AGATAAGGAAGGGTGGGCCCCGGCCACCTTCATTGACAAGTACAAGAAGACGAGCAACGCGTCGAGACCCAACTT
TCTGGCTCCCCTGCCCCACGAGGTGACCCAGCTCCGGCTGGGGGAAGCAGCAGCGCTGGAGAACAAACACGGGCAG
CGAAGCCACGGGCCCCCTCCCGCCCCCTGCCTGACGCACCGCATGGTGTCATGGACTCGGGGTGCCATGGTCTAA
AGACTGGAAGGGCAGTAAGGATGTCCTGAGGAAGGCATCTTCAGACATGTCTGCGTCAGCAGGCTACGAGGAGAT
CTCAGACCCCGACATGGAGGAGAAGCCAGCCTCCCTCCGCGGAAAGAATCCATCATCAAGTCGGAGGGGGAGCT
GCTGGAGCGGGAGCGGGAGCGGCAGAGGACGGAGCAGCTCCGGGGCCCCACTCCCAAGCCTCCGGGCGTGATTTT
GCCGATGATGCCAGCCAAACACATCCCTCCAGCCCGGGACAGCAGGAGGCCAGAGCCCAAACCTGACAAAAGCAG
ACTGTTCCAGCTGAAAAATGACATGGGGCTGGAGTGTGGCCACAAGGTCTTGGCCAAGGAAGTGAAGAAGCCCAA
CCTCCGGCCCCATCTCCAAATCCAAAAGTACCTGCCAGAGGAGAAGCCAGATGCCACTCCCCAGAATCCCTTCTT
GAAGTCCAGACCTCAGGTTAGGCCAAAACAGCTCCTTCCCCAAAACGGAGCCACCTCAGGGCGAAGACCAAGT
CGACATCTGCAACCTCAGGAGTAAGCTCAGGCCTGCCAAGTCCCAAGACAAGTCCTTGTTGGATGGGGAGGGCCC
CCAGGCAGTAGGGGGCCAAAGACGTGGCCTTCAGCCGAAGCTTCCTCCAGGAGAGGGGCGCTGGCCGCGCCAGGA
CAGGACGGGCAAACAGGATGGTCTCAGCCCAAAAGAGATTTCTGCAGAGCCCTCCGAGGCCAGCCAAGACCAC
AGATCCTGTGTCTAAGAGCGTGCCTGTTCCTCTCCAAGAGGCTCCCCAGCAGAGACCTGTGGTCCCAACCCGCGAG
ACCACCTCCCCCAAAGAAAACCTCTTCGTATCCAGGCCGCTCCAGAGGTCCAGAGGTCCACAGTGTGAAGGCCA
CGAAAGCAGGGCAGCTCCCAACCCAGGCCGTGCTCTCCTCGTCCCTCCAAAAGCCAAACCTTTTCTCTCAACTC
TTTGGGGGGCCAGGATGACACGCGAGGCAAAGGCAGCCTGGGGCCATGGGGGACCGGCAAGATTGGAGAAAACAG
GGAGAAAGCAGCTGCAGCCTCTGTCCCCAATGCCGACGGCCTGAAGGACTCTTTGTATGTGGCCGTGGCCGACTT
TGAAGGAGACAAAGACACCAGCAGCTTCAGGAAGGGACAGTGTGTTGAAGTCGGGAGAAGAACAGCAGTGGCTG
GTGGTTCTGCCAGGTCTGAGCGGAGCCCTTCTGGGAAGGGTGGATTCTTCCAACCTATCTCAGAAAGAAGCC
GTAGCCGACTCCCTTTCTGCCTAGAGGGCCCGCTGGTCTTGCTGGCTTTACCCACGTATTTAATACGCCTCTTA
ATTTATCATTCTCCACGCAGCTTCCAAGGCAGACAGACTCTGGGGTACTGTGACTTCTTGCCCTCCCATGGGTGGA
GAGTGAGTTTCGGACACCTCGGGCGCCCTGGGCCTGATCCCTCCTATCACAGCATCACTGGAGGCTCAGAACCC
ACAGCCTTTGCTTTCTGTCCATGTGAGCATCCCTGCCTTAAGAGAACTCCTCCTGGCCAATGGCATTGCCACCCA
GCAGTGGGACCAAGACTCTCCAAGACCTCCAGGACTGGATCCCATTTGCCCTGGAGAACTCCAGCAAGGGTCTCTC
ATGGCTTGGACATGGCAGTAAGGGGCAGCCAACCCAGTCCATGATGACTTTGCTCCAACCTCTTCATGTTTC
TAAAGCCCAGTGGCTTTATTCACTCCTCCTAAATTGCCCTGCTACCAGAAGGAATTCATCCTGAAGAAATGCAT
TCCATTACCAAGTTCCAGGGAAGTGTCCCTTCCCCAAAGCCTCAGGCCCGTGGGCCTCTGAGGTTCCACTGGAT
GCGGCTCCCCAGGAGTGGGCCTGGAGATCCGCTCAGCCGCGCTGCCTCCACCTTCTATCTTGGGACCGTGGTC
AGCCCTGAAGGGTGGTTCCAGCCCCGCTATGCTGCGCTTTGCTGCTGCAGGCTCCGGTCCCTCCAGGGCTTTTC
AATGAGAGTTCCACCCAACTTGGAGCATTTCATTTTTGCCTACCTAAAGCAAGAATCTCAAAGTTTGTGTTGAA
TAAGAGGCCCCATTACAAAGTCGTGCCCTGTGAGCACCCCTTTGCTGAGTGCCTCGTGGGTGCCAAACACTGTAC
TTGGCGCTTTGCATTATGCTTTGACCCTCACAACCTCCCTTTATAGATGAGGAAATTCAGCTCCATGTGCCCA
AGGACACACCAGCCAGGAGGAAGAGGAAGAGGATAGAAGCTGGCTAAGTGGTGGCCAAGTGGCTTCATTGTGAGG
GGGGTGAGGGGGCATTCTGTGGCTGCTCCACACCCACCATCCCTCCAGCCACAGCAGCCTATACCAAGGCTGC
CCTGGACTCAACAGCTGCATCTCCATGACAGGAGAATGCCAGGGTCCCTGGTGGTTGACACAGAGCCCTGTTCCCT
CTTCTAAGCTGTTGCCCCCTGGGGAATAGAGCTTATGGAGCAACGGGAGCTGAGGTGGCCTCGAGGGCCAGCCTG
GAGGGCTCTGAGCATAGCATGCAGCGGTCCCATAGGGAGGCAGGTAACCAAGGGCCAGGCAGAGCTGCTTCCTGT
GCCTCTCCGGCATTGTAAATGTTTTTTCTTTTTTACGCACTGCCAAATCTGTTTTCTCCCTGAAGAAACCCA
GGGCAGATGTGGTCACTGTCAAACCTGAGGTCTGGAGAGGCATGACTAAATCACTGCAGAAGCAAAATCAGGACC
CAGCATTTCTAGCTCCAGCCAGAGTAAGAGAGCAGAGCAGAACCCCTTCCCATTTCTACCCGACCGAGGCAGCC
CTGCCCTGCCCTGCCCGCCCCCTCCCAACCTGCCCTGCCCCAGAGATCTCCAGTTACAGTGTTTCATCAGGCGA
GATACTTTTGGACCCACAAAGCCAGTTTTTTGGGGGGATGCTCAGTGTCTACCTGCAGTGCCAAAGTTTTGCTTG
AACAGCCCTCTTCTGCCGCGCCTCCAGCTCCACCCCTATACAGTGGGTGCTGGCTGCTTCTGCGTGAGGAGCT
TCCTCTGATCACCTGTAGCATCTTTAGTGCCTTCGTCCAGTCGGCCTGCAAAATCCCATTTCCAGAGAGGCTTGG

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FIGURE 1808B

GCAGGGCCCACTTGCCACTTGGCCCTGTGCCAGAGCGTTGGGGGCAGATGGCAGCCAGGGGAAGAAGGGAGGTG
GGGAAGGGCCGCCACCGCTTGAGGGTCCCTCCCTTGAGAGGAGGCCCCATGGCAGTTTTCTTGAGTTCTTGATC
CACTTTGGTTTAAACAACCTTTGTGAAGCTATGTGAGATTGTACTGCATTTCAAAGACAAAACACATGTTTTTT
TCTGATTGCTCTTTGCCCTTCAGCGACGCTTTCAGATACTTTGTGAGTGTCTACTCTGTGCTAGGTGCTGAGTA
GACTGGGATGTGTGTGGCTCCATCCCTGGCTGGAAGAGCTTTGAGTCCTGTCTGCTGACTTCACTGAAGGAGTTT
CTCTCTTGCTTCATTCCCTCCCTCCCGGGGTGCTGAGTGGGTAGGAGCAGACTTGCCCTGCCTTCTCTAGGCAGAA
AGTTTTCTGCAAAATGAAAGAATCTGCCATTCTCTTTTGTATGATGATGATTATTCTGACATGACCCGCGG
GTACTGAAGCCACAGTCCCTCTCTGTTCACTGTTCTCTCCTTGAGTCATACTATGGCCTGAGGACGCTCTGTATCC
AGCTCCTTTTCTACAATGGTAGACACTTCCCCAGGCAGTGGGTGGGTGAGGGTGGCCAGTCACTCTCTAGCTG
TCCTTGCTTGGGGACTTAGATTTACCCCATCCAGGACTGTGGTCGCTATTCTGTGAGCGATTGATGGCGCATATG
CAGAACTCCCTGGAGTCACTGGCTCTAGAAAGTGTCCAGGCCCCATCGTGACAATGGTGCCAAGCACCCGGGCTGGT
GACCAGTGCCATAACACACACGCTCCTTTAATCCTTACGGCAAGCCTGTGAGGCGGATAGGACCAGCCCTGATCT
ATAGTGAGAAAATTAAGGTTTCAAGGGGAGAAGGTCCAAATAGTGGCCAAGCTGGGACTGAGATCTCGAGTTTGGG
TTTGTGTTGGTTTGTGTTGTGTTCTTTCCCTCGTGTCCATGACTTTTTCTCTGCCATTAGCAGGGAAGTGTGCG
GAGGGCTTCCAGGGAATCAAGTGACCCCTCCCTCTGAATTCGGTGCCCTCTTCCCCCGCCCTTGCTCACACATT
TCAGTAGGTACAGGCCAAATGGCAGCCCCAAAGGTGGGCAGAGATTTTTTTTTCTTCCCTCACCCCTGCTTAT
TAACACAATTGTGACAACCTACTTTACCTTACATCCCAGGGCAAACGGACAGCTTGCGGTACCTCCAAAAATTTGG
AAAACCTTGAGTCTAAGACCACCTCTTGATAAAAAGAGGCCTTTGCTCACATGTTCTGCTCGGAATCTTTCTTTGC
CATTGGTGGGTGTATGTCGTCCTCAGCTGAGACTGCGGGAGAGCTGAGCTCCAGCTTAAACCGCTTTAATGGCCC
TTCCCTACTGGGGGATCGCTGGAGCCCATGCCAGGTTACGGTAGTCATTTTAAACCTCTGCCACAAGGCCACGCC
ATAGAATCAATTTCCAAGTCAATGTTCTTGCCCTAAAATGTTTGCGCCCACTGAGGATTTTATTACCAGGTGGA
AGATGGGGGAACATATGCCACGTTAAAGAGCAAGTGCTGAGTGTGCCAGGACTTGAGAAGGACCTTAGGCTGAGG
AGTGGACAGTCTGGTATTTATTTGCGCTCTCCAAGTACCCAGCACAGAGTGGGAAAAAGAAGAACTGCTCCTG
CCTTCCAGTAGCTGGCAACTTGACATCAAGAACAAAACATTCGCTAGCTGGACCCCGTCCTTTTCATCGTGCCCA
AGTCTTACATGTTGGCTTAAGCTGCCCCCTTGAGGGCCGTACCTTTCTCTTTGGACTGTGACAGTGGACACCTAA
CAGCCTGAGCCATGTGTGGCTGTCTTATCCCCCAAGGGTTGTCCAGGCCCCGTCTGCAGGGCTGTTGTGTAGACT
GCAGACATCCATACCTCACCACAGACCAAAGATGACCTCGTGTGAGACTGTGGGCTGATGAGAGGTAGAGCAGCA
TGCATCGAGGCCTGAGGGTGCAGGGCGCCCTCTCTTGCCCTGGAGGAATTGCTCCTAACTAGAGTAAGTTTCCAC
GAGGGTCCCAGGCAGAGCTGCAGAGCTGGAACCGGAGGCTCCACAGTCCTTGCCCTGCTCATGGACCTCCTTCAGA
GCACCTTTCTACAGACTGGACTGCCCAGCTCCGTGGGGTGGCATCTGGTTTTCTGGTGCTATTCTGCCAAGTTATC
GAGCTCCTCCTCATGTTTCAACATTCCATCTTCCCGTTTCTATCCTCGACTCCAAAGTAAGCCTTCTTAGCTCCA
ATCAGGGATGAGGGGCTCAACCTCTTCTGTCTCAAAGAGGCCAAACGCAGTGCCACAGTCGGTAGCCTTCACTT
TTAGATGCTCTATTATGTAAAAAAGAAGGTGCCCCACCAGGCTTACATCAGCAATAAGCAATTCTAATGCAAC
GATGGTGTCCACATTTTACCCAGTGTGTGCCCATGTATGCCCTTGTGCCCCGTGTAATTATTGTTAGCGCCCCCTT
TCACTTAGAGGGGTGATGATAAACTGTGGCCACCTTGATTACAACCCACATTTCTGCTTTGGGGAGCTTCCAAG
TAACAGGCCATTTCTTACCTCCCTCCAGGAACAGTGGGCACTGCCACCACCTCGTGTCTGCTCATAGGATGACG
CTGGAGATCCCCACACTTACTCTACCTCTTGGCAAATTGGCATTCGGGTGGTGGTTTTTGTTCCTTTAACACA
TTAAATAAATGAGTATATAGGATGTGAGGGGAGGGGTGAGAACAACTAGCTGTAGCATGTGTAGGCTATATACTT
TACCATTTGACTTCTTTCTTTTTTTTTTTTTTAAATAAAAAAAGTGCTTGACTGGTTTCAAGCTTCATCATG

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FIGURE 1809

MDSGLPWSKDWKGSKDVLRLKASSDMSASAGYEEISDPDMEEKPSLPPRKESIIKSEGELLERERERQRTEQLRGP
TPKPPGVILPMMPAKHIPPARDSRRPEPKPKDKSRLFQLKNDMGLECGHKVLAKEVKKPNLRPI SKSKTDLPEEKP
DATPQNPFLLKSRPQVRPKPAPSPKTEPPQGEDQVDICNLRSLRPAKSQDKSLLDGEGPQAVGGQDVAFSRSFLP
GEGPGRAQDRTGKQDGLSPKEISCRAPPRPAKTTDPVSKSVFVPLQEAPQQRPVVPPRRPPPPKKTSSSSRPLPE
VRGPQCEGHESRAAPTTPGRALLVPPKAKPFLSNSLGGQDDTRGKGS LGPWGTGKIGENREKAAAASVPNADGLKD
SLYVAVADFEGDKDTSSFQEGTVFEVREKNSSGWWFCQVLSGAPSWEGWIPSNYLRKKP

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FIGURE 1810

TTGGCTGATTGCAATTCTGGCCCAACTCAACCCTCTCTTTGGACCGCAATTGAAAAATGAAACCATCTGGTATCT
GAAGTATCATTGGCCTTGAGGAAGAAGACATGCTCTACAGTGCTCAGTCTTTGAGGTCACGAGAAGAGAATGCCT
TCTAGATGCAAAATCACCTCCAAACCAGACCACTTTTCTTGACTTGCCGTGTTTGGCCATTAGCTGCCTTAAACG
TTAACAGCACATTTGAATGCCTTATTCTACAATGCAGCGTGTTTTCCTTTGCCTTTTTTGCACCTTGGTGAATTA
CGTGCCTCCATAACCTGAACTGTGCCGACTCCACAAAACGATTATGTACTCTTCTGAGATAGAAGATGCTGTTCT
TCIGAGAGATACGTTACTCTCTCCTTGGAATCTGTGGATTGAAGATGGCTCCTGCCTTCTCACGTGGGAATCAG
TGAAGTGTTTAGAAACTGCTGCAAGACAAACAAGACTCCAGTGGGGTGGTCAGTAGGAGAGCACGTTTCAGAGGGA
AGAGCCATCTCAACAGAATCGCACCAAACCTATACTTTTCAGGATGAATTTCTTCTTCTGCCATCTTTTGAATAA
ATATTTTCCTCCTTTCTATGGA

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FIGURE 1811

GTCCCCAACATGGCGGCTCCCCAAGACGTCCACGTCCGGATCTGTAACCAAGAGATTGTCAAATTTGACCTGGAG
GTGAAGGCGCTTATTCAGGATATCCGTGATTGTTTACAGGACCCTTAAGTGCTCTTACTGAACTGAATACTAAAGTA
AAAGAGAAATTTCAACAGTTGCGTCACAGAATACAGCCAGTTCTCTATCAAAGGGCATTATTTGGACTGCTTCC
ACATTTTTTTTAAAGCTAACTTATTCCTGACAGACTTTCTTCAACTCAGCATGACTTCAACTCTCCAACCTACA
CCTGTTACCTTCAGTGACCTGGAGCAGTTGGCTAAAGAGCAAGACAAAGAATCAGAGAAACAACCTTCTACTCCAG
GAAGTGGAGAATCACAAAAGCAGATGCTCAGCAATCAGGCCTCATGGAGGAAAGCTAATCTCACCTGCAAAATT
GCAATCGACAATCTAGAGAAAGCAGAACTTCTTCAGGGAGGAGATCTCTTAAGGCAAAGGAAAACCACCAAAGAG
AGCCTGGCCCAGACATCCAGTACCATCACTGAGAGCCTCATGGGGATCAGCAGGATGATGGCCCAGCAGGTCCAG
CAGAGCGAGGAGGCCATGCAGTCTCTAGTCACTTCTTCACGAACGATCCTGGATGCAAATGAAGAATTTAAGTCC
ATGTCGGGCACCATCCAGCTGGGCCGGAAGCTTATCACAAAATACAATCGCCGGGAGCTGACGGACAAGCTTCTC
ATCTTCCTTGCGCTAGCCCTGTTTCTTGCTACGGTCCTCTATATTGTGAAAAAGCGGCTCTTTCCATTTTTGTGA
GATCCCAAAGGTGCCAGTTCTGGCCCTTTCAGCTCCTGTTTCAGGATCTGTCCTGGTTCCCTGAGCTCTAGGCTGC
TAAGCTGAGCCACACACCCCTCCGTTTGACCCAGTTGCCTGCAGGTTGGATGGAACACAGTGCCCCACTTTTCTG
CAAGTAGCTGGCTTGTAAGGGTGAACAGAGCCATGGGAGGAAGGTCTGGCATTGGGATGCCGCCCTGGGGACAT
ACGAACCGCCTCCTTCCACCATTTGTGCACTATGGGAGGCCGCTGCTGCGTGGAGCACTTAAAGTCCAGCCTCCAG
GACCGGATGCCCTCCTGTCTCCCGCTCCCATCGTGCCCTTAAATGCCAGATCTGGTGGAGGGAAGAGAGAAGAG
GTAGGAAGAAAGGTGATGAAAACCTCTGGTCATTCTTGAATAAA

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FIGURE 1812

GAGGAGGAGGGAAAAGGCGAGCAAAAAGGAAGAGTGGGAGGAGGAGGGGAAGCGGCGAAGGAGGAAGAGGAGGAG
GAGGAAGAGGGGAGCACAAAGGATCCAGGTCTCCCGACGGGAGGTTAATACCAAGAACCATGTGTGCCGAGCGGC
TGGGCCAGTTTCATGACCCTGGCTTTGGTGTGGCCACCTTTGACCCGGCGCGGGGGACCGACGCCACCAACCCAC
CCGAGGGTCCCCAAGACAGGAGCTCCACAGCAAAAGGCCGCTGTCCCTGCAGAATACAGCGGAGATCCAGCACT
GTTTGGTCAACGCTGGCGATGTGGGGTGTGGCGTGTGTTGAATGTTTCGAGAACAACCTCTTGTGAGATTCGGGGCT
TACATGGGATTGTCATGACTTTTCTGCACAACGCTGGAAAATTTGATGCCAGGGCAAGTCATTTCATCAAAGACG
CCTTGAAATGTAAGGCCACGCTCTGCGGCACAGGTTCCGGCTGCATAAGCCGGAAGTGCCCGGCCATCAGGGAAA
TGGTGTCCAGTTGCAGCGGGAATGCTACCTCAAGCACGACCTGTGCGCGGCTGCCAGGAGAACACCCGGGTGA
TAGTGGAGATGATCCATTTCAAGGACTTGCTGCTGCACGAACCTACGTGGACCTCGTGAACCTGCTGCTGACCT
GTGGGGAGGAGGTGAAGGAGGCCATCACCCACAGCGTGCAGGTTTCAGTGTGAGCAGAACTGGGGAAGCCTGTGCT
CCATCTTGAGCTTCTGCACCTCGGCCATCCAGAAGCCTCCCACGGCGCCCCCGAGCGCCAGCCCCAGGTGGACA
GAACCAAGCTCTCCAGGGCCCCACCGGGGAAGCAGGACATCACCTCCAGAGCCCAGCAGTAGGGAGACTGGCC
GAGGTGCCAAGGGTGAGCGAGGTAGCAAGACCCAAACGCCCATGCCGAGGCAGAGTCGGGGGCGCTTGGGG
CTCAGGGACCTTCCGGAAGCAGCGAGTGGGAAGACGAACAGTCTGAGTATTCTGATATCCGGAGGTGAATGAAA
GGCCTGGCCACGAAATCTTTCCTCCACGCCGTCCATTTTCTTATCTATGGACATTCCAAAACATTACCATTAGA
GAGGGGGGATGTACACGCAGGATTCTGTGGGGACTGTGGACTTCATCGAGGTGTGTGTTCCGGAACGGACAGG
TGAGATGGAGACCCCTGGGGCCGTGGGGTCTCAGGGGTGCCGTGGAATTCTGCACTTACAGTACTCAAGGGAG
CGCGCCCGCGTTATCCTCGTACCTTTGTCTTCTTCCATCTGTGGAGTCAGTGGGTGTGCGCCGCTCTGTGTGG
GGGAGGTGAACCAGGGAGGGGAGGGCAAGGCAGGGCCCCCAGAGCTGGGCCACACAGTGGGTGCTGGGCCCTCGC
CCCGAAGCTTCTGGTGCAGCAGCCTCTGGTGTGTCTCCGCGGAAGTCAGGGCGGCTGGATTCCAGGACAGGAGT
GAATGTAAAAATAAATATCGCTTAGAATGCAGGAGAAGGGTGGAGAGGAGGCAGGGGCCGAGGGGGTGCTTGGTG
CCAACTGAAATTAGTTTCTTGTGTGGGGCCTTGGCGTTCAGAGCTCTTGGCGAGGGTGGAGGGAGGAGTGTCA
TTTCTATGTGAATTTCTGAGCCATTGTACTGTCTGGGCTGGGGGGACACTGTCCAAGGGAGTGGCCCTATGA
GTTTATATTTTAACTACTGCTTCAAATCTCGATTCACTTTTTTATTTATCCAGTTATATCTACATATCTGTCA
TCTAAATAAATGGCTTTCAAACAAAGCAACTGGGTCATTAAACCAGCTCAAAGGGGGTTTAAAAAAAAAAAAAAC
CAGCCCATCCTTTGAGGCTGATTTTCTTTTTTTTAAAGTTCTATTTTAAAGCTATCAAACAGCGACATAGCCAT
ACATCTGACTGCCTGACATGGACTCCTGCCCACTTGGGGGAAACCTTATACCCAGAGGAAAATACACACCTGGGG
AGTACATTTGACAAATTTCCCTTAGGATTTTCGTTATCTCACCTTGACCCTCAGCCAAGATTGGTAAAGCTGCGTC
CTGGCGATTCCAGGAGACCCAGCTGGAAACCTGGCTTCTCCATGTGAGGGGATGGGAAAGGAAAGAGAATGA
AGACTACTTAGTAATTTCCATCAGGAAATGCTGACCTTTTACATAAAATCAAGGAGACTGCTGAAAATCTCTAAG
GGACAGGATTTTCCAGATCCTAATTGGAATTTAGCAATAAGGAGAGGAGTCCAAGGGGACAAATAAAGGCAGAG
AGAGAGAGAGAGAGGGGAGAGGAAGAAAAGAGAGAGAGAAAAGACCTCGTGCC

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FIGURE 1813

MCAERLGQFMTLALVLATFDPARGTDATNPPEGPDQRSSQQKGRSLQNTAEIQHCLVNAGDVGCGVFECFENNS
CEIRGLHGICMTFLHNAGKFDAQGKSFIKDALKCKAHALRHRFGCISRKCPAIREMVSQLQRECYLKHDLCAAAQ
ENTRVIVEMIHFKDLLLHEPYVDLVNLLLTGGEVKEAITHSVQVQCEQNWGSLCSILSFCTSAIQKPPTAPPER
QPQVDRTKLSRAHHGEAGHHLPEPSSRETGRGAKGERGSKSHPNAHARGRVGGLGAQGPGSGSSEWEDEQSEYSDI
RR

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FIGURE 1814

GCGGCGCCAGGACTGACTGCGCCGTGGAGGCTGCTGCAGTGTTGTGAGTTGGAAGCTGGGGAGCTCGGCATGGCG
GTCCCCGCTGCAGCCATGGGGCCCTCGGCGTTGGGCCAGAGCGGCCCCGGCTCGATGGCCCCGTGGTGCTCAGTG
AGCAGCGGCCCCGTGCGCTACGTGCTTGGGATGCAGGAGCTGTTCCGGGGCCACAGCAAGACGCGCGAGTTCCTG
GCGCACAGCGCCAAGGTGCACTCGGTGGCCTGGAGTTGCGACGGGCGTCGCCTAGCCTCGGGGTCCCTCGACAAG
ACGGCCAGCGTCTTCTTGCTGGAGAAGGACCGGTTGGTCAAAGAAAAACAATTATCGGGGACATGGGGATAGTGTG
GACCAGCTTTGTTGGCATCCAAGTAATCCTGACCTATTTGTTACGGCGTCTGGAGATAAAACCATTCGCATCTGG
GATGTGAGGACTACAAAATGCATTGCCACTGTGAACACTAAAGGGGAGAACATTAATATCTGCTGGAGTCCTGAT
GGGCAGACCATTGCTGTAGGCAACAAGGATGATGTGGTGACCTTTATTGATGCCAAGACACACCGTTCCAAAGCA
GAAGAGCAGTTCAAGTTCGAGGTCAACGAAATCTCCTGGAACAATGACAATAATATGTTCTTCTGACAAATGGC
AATGGTTGTATCAACATCCTCAGCTACCCAGAAGTGAAGCCTGTGCAGTCCATCAACGCCCATCCTTCCAACTGC
ATCTGTATCAAGTTTGACCCCATGGGGAAGTACTTTGCCACAGGAAGTGCAGATGCTTTGGTCAGCCTCTGGGAT
GTGGATGAGTTAGTGTGTGTTTCGGTGCTTTTCCAGGCTGGATTGGCCTGTAAGAACCCTCAGTTTCAGCCATGAT
GGGAAAATGCTGGCGTCAGCATCGGAAGATCATTTTATTGACATTGCTGAAGTGGAGACAGGGGACAACTATGG
GAGGTACAGTGTGAGTCTCCGACCTTCACAGTGGCGTGGCACCCCAAAAGGCCTCTGCTGGCATTTCCTGTGAT
GACAAAGACGGCAAATATGACAGCAGCCGGAAGCCGGAAGTGTGAAGCTGTTTGGGCTTCCTAATGATTCTTGA

GAGGAGGTTGTAGGGAGAGGAGGCCCCGGCAGAGGTCTTCCTTCATGTGGTTAGTTGGTCTGTTCTCTCGGAGT
TGGTGGGCACCCTAAATATTTGTAAGTTGGTATAAATGTAAACGTCTCTGGTCAGGCTGCGCATTTTCGTTCTTT
TGCTTTGTCTGTGTATTAGCTCTTTCCATTCTTTGCCCCAGCATGAGTTAACTCGCGTGGACTCTGCAGTGCGA
GTAGTGACCCAGCATACCTTGTCCTCTGGACCTCCTGTCTTCTCTGCTTCTGGGTGCATGGTAGACTTTGTGGC
ATTTGATACAÄCTTGGACAATACCTAGTTTGGAGGGAGGGGAATGGAAGGGCATGGAAGTTTTTTTAAATAATTA
AAAATATATACATATAATTTTGAGAATTGAGCATTTAATAAACTGACTTTTGTATTATGGAATAAAAAAAAAA
AA

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FIGURE 1815

MAVPAAAMGPSALGQSGPGSMAPWCSVSSGPSRYVLGMQELFRGHSKTREFLAHSKVVHSAWSCDGRRLASGSF
DKTASVFLLEKDRLVKENNYRGHDSVDQLCWHPSNPDLFVTASGDKTIRIWDVVRTTKCIATVNTKGENINICWS
PDGQTIAVGNKDDVVTFIDAKTHRSKAEQFKFEVNEISWNNDNNMFFLTNGNGCINILSYPELKPVQSINAHPS
NCICIKFDPMGKYFATGSADALVSLWDVDELVCVRCFSRLDWPVRTLSFSHDGKMLASASEDHFIDIAEVETGDK
LWEVQCESPTFTVAWHPKRPLLAFACDDKDKGYDSSREACTVKLFGLPND

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FIGURE 1816

ATAAACTGAAAGCTGAGCGTGAACGTGGTATCACCATTGATATCTCCTTGTGGAAATTTGAGACCAGCAAGTACT
ATGTGACTATCACTGATGCTCCAGGACACAGAGACTTCATCAAAAACATGATTACAGGGACATCTCAGGCTGACT
GTGCTGTCCCGATTGTTGCTGCTGGTGTGGTGAATTTGAAGCTGGTATCTCTAAGAATGGGCAGACCCGAGAGC
ATGCCCTTCTGGCTTACACACTGGGTGTGAAACAATAATTGTTGGTGTAAACAAATGGAAGTCAGCACTTACA
TTAAGAAAATTGGCTACAACCCCGACACAGTAGCATTGTGCCAATTTCTGGTTGGAATGGTAACAACATGCTGG
AGCCAAGTGCTAACATGCCTTGGTTCAAGGGATGGAAAGTCACCCGTAAGGATGGCAATGCCAGTGGAACCATGC
TGCTTGAGGCTCTGGACTGCATCCTACCACCAACTCGTCCAAGTGAAGCCGGCCAAATAAGCGCGTGGCTATG
CCCCATGTAATTGGATTGTCCACACGGCTACATATTGCATGCAAGTTTGCTGAGCTGAAGGAAAAGATTGATCGC
CGTTCTGGTAAAAAGCTGGAAGATGGCCCTAAATTCTTGAAGTCCGGTGATGCTGCCATTGTTGATATGGTTCCT
GGCAAGCCCATGTGTGCTGAGAGCTTCTCAGACTATCCACCTTTGGGTCGCTTTGCTGTTTCGTGATATGAGACAC
ACAGTTGCGGTGGGTGTCATCAAAGCAGTGGACAAGAAGGCTGCTGGAGCTGGCAAGGTCACCAACTCTGCCCAG
AAAGCTCAGATGGCTAAATGAATATTATCCCTAATACCTGCCACCCCACTCTTAATCAGTGGTGGAGAAGCGGTC
TCAGAACTGTTTGTTCATTGGCCATTTAAGTTTAGTAGTAAAAGACTGGTACTTTTTAATGGAAACAACCTTGA
CCAAAAATTTGTCACAGAATTTTGAGACCCATTAAAAAAGTTTAAATGAG

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FIGURE 1817

GGGTCAGAACACTGGCGGCCGATCCCAACGAGGCTCCCTGGAGCCCGACGCAGAGCAGCGCCCTGGCCGGGGCCAA
GCAGGAGCCGGCATCATGGATTCTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCGGGTGCAAGGG
GGCAAGGACTTCAATGTGCCCCCTCTCCATTTCCCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCC
GTGGGTGACTGGGTGCTGAGCATCGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATC
CGGGCCTGCGGGGAGCGCCTCAGCCTGGGCCTCAGCAGGGGCCAGCCGGTTCAGAGCAAACCGCAGAAGGTACGA
GGCTGGCCGGGACATCCGGGCGGTGGGCGGTGTGGGCTTGGACGGCCAGGCCTGCTCGCCCTCCTGGCACATTCT
CGGTACCCCAATCCCTGGCCGGGAGTGGAGGGCAGAAACCGGAGCTAAGGCGGGTCTAGGGCCCTGGAGTTGAGC
CAGGGGCTGCTGCACGGTCCTGGCACCAACGCATGTCCGCCTGTCTGTCCGCCTGTCTGTCCGCCTGCTGCCTCCC
GCCGCCGGCGCTGCGTGCTCGCCCGCACTCGGTACGCCCTCGGTCCTGCGTGGACTGAGATCGCCACTCCCAAT
GGGCCCCCTTGAACCTGAGTCGTCTCTCCCGTAGCCTCCAAATAGATGTAGGGGGTGGGGTGGGGGTGGGGG
CTGGAGCTGCCGCTGTCTCTGTCTGCAGGCGCCC

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FIGURE 1818

AATGGAGGAGTCGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGC
GGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAGAAGCT
GCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCCCGGGGAGATGAGGA
CGACATCCCCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGC
GCGCAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTTGCCGAGGGCCGAGC
ATTGAIGTCAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAACACAGCTGGACTCCACCCCG
TTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCAGGAGAAATACCACATCCTGGTGGAGGGAGACGG
TATCCACCAACCCATCAAGAGCTTCAAGGAAATGAAGTTTCTGCAGCCATCCTGAGAGGCCTGAAGAAGAAAGG
CATTACACACCAACACCCATTGAGATCCAGGGCATCCCCACCATCTATCTGGCCGTGACATGATAGGCATCGC
TTTCACGGGTTTCAGGCAAGACACTGGTGTTCAGTTGCCCGTCATCATGTTCTGCCCTGGAACAAGAGAAGAGGTT
ACCTTTCTCAAAGCGCGAGGGGCCCTATGGACTCATCATCTGCCCTCGCGGGAGCTGGCCCCGGCAGACCCATGG
CATCCTGGAGTACTACTGCCCGCTGCTGCAGGAGGACAGCTCACCCTCCTGCGCTGCGCCCTCTGCATTGGGGG
CATGTCCGTGAAAGAGCAGATGGAGACCATCCGACACGGTGTACACATGATGGTGGCCACCCCGGGGCGCCTCAT
GGATTTGCTGCAGAAGAAGATGGTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGCATGAT
CGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAGCGACAGACCTGCTCTTCAG
TGCCACCATGCCGAAGAAGATTGAGAACTTTGCTAAGAGTGCCCTTGTAAGCCTGTGACCATCAATGTGGGGCG
CGCTGGGGCTGCCAGCCTGGATGTATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCT
CGAGTGCTGCAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATCCACGA
GTACCTGCTGCTCAAGGGGGTTGAGGGCGTAGCCATCCATGGGGGCAAAGACCAGGAGGAACGGACTAAGGCCAT
CGAGGCATTCCGGGAGGGCAAGAAGGATGTCTAGTAGCCACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGC
CATCCAGCACGTATCAATTATGACATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCG
CTCGGGAAACACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTCAAAGC
GCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCGCGTGTGTCAGGTGCTGCATTGCGGGGATGAGTCCATGCTGGA
CATTGGAGGAGAGCGCGGCTGTGCCTTCTGCGGGGGCCTGGGTTCATCGGATCACTGACTGCCCCAACTCGAGGC
TATGCAGACCAAGCAGGTGAGCAACATCGGTGCAAGGACTACCTGGCCACAGCTCCATGGACTTCTGAGCCGA
CAGTCTTCCCTTCTCTCCAAGAGGCCTCAGTCCCCAAGACTGCCACCACTTACACATACAGCAGCCCCCTGGAC
AGAATCAGCATTTGAGCTCAGCTGGCCTGGGATGGGCCAGGCTGGTCCTGGCTGCCTGTTCCCTGTGCTCTTCAG
AATTACTGTTTTTGTTCCTTTTACCCAGCTGCCATTAAAGCCCAAACCTCTAGCCC

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FIGURE 1819

GCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCCGAACCGGGCTGGGTAGAGTGATGCGGA
CCCTCCTGCTGGTGCTGTGGCTGGCGACGCGCGGAAGCGCGCTCTACTTTCACATCGGAGAGACGGAGAAGAAGT
GCTTTATTGAGGAGATCCCGGACGAGACCATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAGCAGCGGG
AGGAGTACCAGCCGGCCACCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTCATCCTGG
CCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCACTTCCCATACCCCCTGGTGAGCACCATCTGTCTTCACT
CCAATTCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAGAGTTCACCTGGACATCCAGGTAGGTGAACATG
CCAATGACTATGCAGAAATTGCTGCTAAAGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTGGTGGAAC
AAGTGGAGCAGATCCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAAGTGAGAGCA
CCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCCTCATCCTCGTGGCCATCGGTGTCTGGCAGATGCGGC
ACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTCCCAGGCGTCACAACCCATCCTCCCAGGCTGGG
GGAGGGGAATGGGCAGGCAAGCCAGTCTTCTGTCTTCCTTT

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FIGURE 1820

GCCTCCGCCCCCGCCGGGACCCTCCGCGGTACACCTTGCAACCCAGCGTCTCCCTCTACAAGACGGCCCCGGCCCT
TTGGTGCGCCCCCGCCCGCTGACAGCGCCCCGAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCA
GCAAGCAGCGGCTGATGGAGAACACAGAGGACTGGCGGCCGCGGCCGGGGACAGGCCAGTCGCGTTTCCTTCCGCA
TCCTTGCCCACTCACAGGCACCGAGTTTCATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGC
CCAGGACAGAAGCCCCAGCCCCAGCCTCATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTA
CCAGCCGCCCCGCCCTGGGCTGTGGACCCTGCGTTTGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGA
CCCGGCACAGCCAGCCGGCCACGCCCACGCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGG
TGCCAGGAGGGGGCAGCAACAACGGCAAGACTCCCGTGTGTACACAGTGCCACAAGGTCATCCGGGGCCGCTACC
TGGTGGCGCTGGGCCACGCGTACCACCCGGAGGAGTTTGTGTGTAGCCAGTGTTGGGAAGGTCCTGGAAGAGGGTG
GCTTCTTTGAGGAGAAGGGCGCCATCTTCTGCCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGT
GCAAGAAGAAGATTACAGGCGAGATCATGCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTG
CCTGCAAGACGCCATCCGGAACAGGGCCTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGA
AGATGTTTGGCACGAAATGCCATGGCTGTGACTTCAAGATCGACGCTGGGGACCGCTTCCTGGAGGCCCTGGGCT
TCAGCTGGCATGACACCTGCTTCGTCTGTGCGATATGTCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGA
AGGACAGGCCTCTCTGCAAGAGCCATGCCTTCTCTCATGTGTGAGCCCCTTCTGCCCACAGCTGCCGCGGTGGCC
CCTAGCCTGAGGGGCCTGGAGTCGTGGCCCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCCTGGCTC
CTGGCCCGAGCCTGGGGCTCCCTGGGGCCCTGCCCCACCCACCTTATCCTCCCACCCACTCCCTCCACCACCACA
GCACACCGGTGCTGGCCACACCAGCCCCCTTTACCTCCAGTGCCACAATAAACCTGTACCCAGCTG

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FIGURE 1821

AGGTGGAGCAAGATGGCTGTGGAGCTGGGCGTGCTGCTCGTCCGGCCCCGGCCCCGGAACCGGGCTGGGTAGAGTG
ATGCGGACCCTCCTGCTGGTGCTGTGGCTGGCGACGCGCGGAAGCGCGCTCTACTTTCACATCGGAGAGACGGAG
AAGAAGTGCTTTATTGAGGAGATCCCGGACGAGACCATGGTCATAGGAACTACCGGACGCAGCTGTATGACAAG
CAGCGGGAGGAGTACCAGCCGGCCACCCCGGGGCTTGGCATGTTTGTGGAGGTGAAGGACCCAGAGGACAAGGTC
ATCCTGGCCCCGGCAGTATGGCTCCGAGGGCAGGTTCACTTTCACCTTCCCATACCCCTGGTGAGCACCAGATCTGT
CTTCACTCCAATTCCACCAAGTTCTCCCTCTTTGCTGGAGGCATGCTGAGAGTTCACCTGGACATCCAGGTAGGT
GAACATGCCAATGACTATGCAGAAATTGCTGCTAAAGACAAGTTGAGTGAGTTGCAGCTACGAGTGCGACAGCTG
GTGGAACAAGTGGAGCAGATCCAGAAAGAGCAGAACTACCAGCGGTGGCGAGAGGAGCGCTTCCGGCAGACCAGT
GAGAGACCAACCAGCGGGTGCTGTGGTGGTCCATTCTGCAGACCCTCATCCTCGTGGCCATCGGTGTCTGGCAG
ATGCGGCACCTCAAGAGCTTCTTTGAAGCCAAGAAGCTTGTGTAGCTGTCCAGGCGTCAACAACCCATCCTCCCA
GGCTGGGGGAGAAAGGACCTCCTGGAACCTGACTTCTTCTGTCAAGGAGGACTGGTTTCCAGCCATACCTGTTCTGG
AAGGGAGAGGGGCTGGAGGCACCCACAGGCACAAGCTGAAGGCAGCAGCTTGGCTAATACTGAGCAGGTAGTGGG
GCAAAATTCCTGCCCTCTCTCTCTGGCCCTCTGGGCCGTTTGGTAGTAATCACCCAGGGGCTGGTAAAGCCCCCTCCT
CTTGGCACCTCAGAATCACAGTGTTACTGATCAGGGATGTGAGGCTGCTGTTGGGGGTGGGGGGAGGGGAATGGG
CAGGCAAGCCAGTCTTCTGTCTTCCTTTGCTAACTTAGGGTTTTGAGCAGGTTGGGGTATGGTGCTGTGCATACC
CACCTGCCACCCTGGGAACCTCACTGTTCTCTCTTTCAGCCTAGACCTGCTGATCCAGGGTGTGTGTGAGTTGAG
GGTGGGTGGAGGGGTTTGCAGTGTGGGAATGTGGCCCTGCAGTTGACCTGAGCTGCTTCACATGGTTGTCCATT
TGGGGCTTAAAGAACTGGGACCAGACCAAGTAGAGGCCTTGGTGCTGGTTGGGGTGGGGCCTGCAGAGTCTTAGT
TACTGATTTTCAATTTCAATAAATGTAGGTTTGTACATGAGTTTCCCAATAAAAAAAAAAATG

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FIGURE 1822

MRTLLLVWLATRGSAFYFHIGETEKKCFIEEIPDETMVIGNYRTQLYDKQREEYQPATPGLGMFVEVKDPEDKV
ILARQYGSEGRFTFTSHTPGEHQICLHSNSTKFSLFAGGMLRVHLDIQVGEHANDYAEIAAKDKLSELQLRVRQL
VEQVEIQKEQNYQRWREERFRQTSESTNQRVLWWSILQTLILVAIGVWQMRHLKSFFEAKKLV

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FIGURE 1823

AATGGAGGAGTCTGGAACCCGAACGGAAGCGGGCTCGCACCGACGAGGTGCCTGCCGGAGGAAGCCGCTCCGAGGC
GGAAGATGAGGACGACGAGGACTACGTGCCCTATGTGCCGTTACGGCAGCGCCGGCAGCTACTGCTCCAGAAGCT
GCTGCAGCGAAGACGCAAGGGAGCTGCGGAGGAAGAGCAGCAGGACAGCGGTAGTGAACCCCGGGGAGATGAGGA
CGACATCCCGCTAGGCCCTCAGTCCAACGTCAGCCTCCTGGATCAGCACCAGCACCTTAAAGAGAAGGCTGAAGC
GCGCAAAGAGTCTGCCAAGGAGAAGCAGCTGAAGGAAGAAGAGAAGATCCTGGAGAGTGTTGCCGAGGGCCGAGC
ATTGATGTCTAGTGAAGGAGATGGCTAAGGGCATTACGTATGATGACCCCATCAAACCAGCTGGACTCCACCCCG
TTATGTTCTGAGCATGTCTGAAGAGCGACATGAGCGCGTGCGGAAGAAATACCACATCCTGGTGGAGGGAGACGG
TATCCCACCACCCATCAAGAGCTTCAAGGAAATGAAGTTTCTGTCAGCCATCCTGAGAGGCCTGAAGAAGAAAGG
CATTCAACCACCCAAACCCATTTCAGATCCAGGGCATCCCCACCATTCTATCTGGCCGTGACATGATAGGCATCGC
TTTCACGGGTTTCAGGCAAGACACTGTTGTTACGTTGCCCGTTCATCATGTTCTGCCTGGAACAAGAGAAGAGGTT
ACCCTTCTCAAAGCGCGAGGGGCCCTATGGACTCATCATCTGCCCCCTCGCGGGAGCTGGCCCGGCAGACCCATGG
CATCCTGGAGTACTACTGCCGCTGTGTCAGGAGGACAGCTCACCCTCCTGCGCTGCGCCCTCTGCATTGGGGG
CATGTCCGTGAAAGAGCAGATGGAGACCATCCGACACGGTGACACATGATGGTGGCCACCCCGGGGCGCCTCAT
GGATTTGCTGCAGAAGAAGATGGTTCAGCCTAGACATCTGTGCTACCTGGCCCTGGACGAGGCTGACCGCATGAT
CGACATGGGCTTCGAGGGTGACATCCGTACCATCTTCTCCTACTTCAAGGGCCAGCGACAGACCCCTGCTCTTCAG
TGCCACCATGCCGAAGAAGATTGAGAACTTTGCTAAGAGTGCCCTTGTAAGCCTGTGACCATCAATGTGGGGCG
CGCTGGGGCTGCCAGCCTGGATGTATCCAGGAGGTAGAATATGTGAAGGAGGAGGCCAAGATGGTGTACCTGCT
CGAGTGCCTGCAGAAGACACCCCGCCTGTACTCATCTTTGCAGAGAAGAAGGCAGACGTGGACGCCATCCACGA
GTACCTGCTGCTCAAGGGGGTTGAGGCCGTAGCCATCCATGGGGGCAAAGACCAGGAGGAACGGACTAAGGCCAT
CGAGGCATTCCGGGAGGGCAAGAAGGATGTCTAGTAGCCACAGACGTTGCCTCCAAGGGCCTGGACTTCCCTGC
CATCCAGCACGTATCAATTAAGACATGCCAGAGGAGATTGAGAACTATGTACACCGGATTGGCCGCACCGGGCG
CTCGGGAAACACAGGCATCGCCACTACCTTCATCAACAAAGCGTGTGATGAGTCAGTGCTGATGGACCTCAAAGC
GCTGCTGCTAGAAGCCAAGCAGAAGGTGCCGCCGTGCTGCAGGTGCTGCATTGCGGGGATGAGTCCATGCTGGA
CATTGGAGGAGAGCGCGGCTGTGCCCTTCTGCGGGGGCCTGGGTTCATCGGATCACTGACTGCCCCAACTCGAGGC
TATGCAGACCAAGCAGGTGAGCAACATCGGTGCGAAGGACTACCTGGCCACAGCTCCATGGACTTCTGAGCCGA
CAGTCTTCCCTTCTCTCAAGAGGCCCTCAGTCCCCAAGACTGCCACCAGTCTACACATACAGCAGCCCCCTGGAC
AGAATCAGCATTTTCAGCTCAGCTGGCCTGGAATGGGCCAGGCTGGTCTGCTGCTGCTTCCCTGTGCTCTTCAG
AATTACTGTTTTTGTTCCTTTTACCCAGCTGCCATTAAAGCCCAAACCTCTAGCCC

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FIGURE 1824

CCCAACGAGGCTCCCTGGAGCCCGACGCAGAGCAGCGCCCTGGCCGGGCCAAGCAGGAGCCGGCATCATGGATTG
CTTCAAAGTAGTGCTGGAGGGGCCAGCACCTTGGGGCTTCCGGCTGCAAGGGGGCAAGGACTTCAATGTGCCCCCT
CTCCATTTCGGCTCACTCCTGGGGGCAAAGCGGCGCAGGCCGGAGTGGCCGTGGGTGACTGGGTGCTGAGCAT
CGATGGCGAGAATGCGGGTAGCCTCACACACATCGAAGCTCAGAACAAGATCCGGGCCTGCGGGGAGCGCCTCAG
CCTGGGCCTCAGCAGGGGCCAGCCGGTTTCAGAGCAAACCGCAGAAGGCCTCCGCCCCGCGCGGACCCCTCCGCG
GTACACCTTTGCACCCAGCGTCTCCCTCAACAAGACGGCCCGGCCCTTTGGGGCGCCCCGCGCGCTGACAGCGC
CCCGCAGCAGAATGGACAGCCGCTCCGACCGCTGGTCCCAGATGCCAGCAAGCAGCGGCTGATGGAGAACACAGA
GGACTGGCGCGCGCGCGGGGACAGGCCAGTCGCGTTCTTCCGCATCCTTGCCACCTCACAGGCACCGAGTT
CATGCAAGACCCGGATGAGGAGCACCTGAAGAAATCAAGCCAGGTGCCCAGGACAGAAGCCCCAGCCCCAGCCTC
ATCTACACCCAGGAGCCCTGGCCTGGCCCTACCGCCCCAGCCCTACCAGCCGCGCGCCCTGGGCTGTGGACCC
TGCGTTTGCCGAGCGCTATGCCCCGGACAAAACGAGCACAGTGCTGACCCGGCACAGCCAGCCGGCCACGCCCCAC
GCCGCTGCAGAGCCGCACCTCCATTGTGCAGGCAGCTGCCGGAGGGGTGCCAGGAGGGGGCAGCAACAACGGCAA
GACTCCCGTGTGTACCAAGTGCCACAAGGTATCCGGGGCCGCTACCTGGTGGCGCTGGGCCACGCGTACCACCC
GGAGGAGTTTGTGTGTAGCCAGTGTGGGAAGGTCTGGAAGAGGGTGGCTTCTTTGAGGAGAAGGGCGCCATCTT
CTGCCCACCATGCTATGACGTGCGCTATGCACCCAGCTGTGCCAAGTGCAAGAAGAAGATTACAGGCGAGATCAT
GCACGCCCTGAAGATGACCTGGCACGTGCACTGCTTTACCTGTGCTGCCTGCAAGACGCCCATCCGGAACAGGGC
CTTCTACATGGAGGAGGGCGTGCCCTATTGCGAGCGAGACTATGAGAAGATGTTTGGCACGAAATGCCATGGCTG
TGACTTCAAGATCGACGCTGGGGACCGCTTCCCTGGAGGCCCTGGGCTTCAGCTGGCATGACACCTGCTTCGTCTG
TGCGATATGTCAGATCAACCTGGAAGGAAAGACCTTCTACTCCAAGAAGGACAGGCCCTCTCTGCAAGAGCCATGC
CTTCTCTCATGTGAGCCCCCTTCTGCCCACAGCTGCCGCGGTGGCCCCCTAGCCTGAGGGGCCTGGAGTCGTGGC
CCTGCATTTCTGGGTAGGGCTGGCAATGGTTGCCTTAACCTGGCTCCTGGCCCCGAGCCTGGGGCTCCCTGGGCC
CTGCCCCACCCACCTTATCCTCCCACCCCACTCCCTCCACCACCACAGCACACCGGTGCTGGCCACACCAGCCCC
CTTTCACCTCCAGTGCCACAATAAACCTGTACCCAGCTG

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FIGURE 1825

MDSFKVLEGPAPWGFRLQGGKDFNVPLSI SRLTPGGKAAQAGVAVGDWVLSIDGENAGSLTHIEAQNKIRACGE
RLSLGLSRAQPVQSKPQKASAPAADPPRYTFAPSVSLNKTARPF GAPPADSA PQNGQPLRPLVPDASKQRLME
NTEDWRPRPGTGQSRSFRI LAHLTGTEFMQDPDEEHLKKSSQVPRTEAPAPASSTPQEPWPGPTAPSPTS RPPWA
VDPFAFAERYAPDKTSTVLTRHSQPATPTPLQSRTSIVQAAAGGVPGGGSNNGKTPVCHQCHKVIRGRYLVALGHA
YHPEEFVCSQCGKVLEEGGFEEKGAIFCPCYDVRYAPSCAKCKKKITGEIMHALKMTWHVHCFTCAACKTPIR
NRAFYMEEGVPCERDYEKMFGTKCHGCDFKIDAGDRFLEALGFSWHDTCFVCAICQINLEGKTFYSKKDRPLCK
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FIGURE 1826

GGGGGCGCGCGCCCCGCGCCTCCAGCCCAGCGCTCGGAGCCGCTTTCGCTGCCACTGTCTGCTCCCCGGGCGC
CGCCGCCTCCCCCGCAGGCCCCGGGGCTCTGTCCGCTGGGCCCCGCGCTGCTCGCCCCGGGCCAGGAGAACGAGCT
CGAGGAGGATGCCTGGGCCCCGGTGCAAGGTTCCCCCTCTCACC CGCAGCTGTGGAGAGGAGGAAGCGGAAGCTAGA
GATGCCCATCTGGAGTGAGTGCAGGACCAGGTCCCGCGCGGGCCCCGGGTGAGGCACGCCCCGCGCGCCCCGCCGGC
CCATGGGAAGGAGCGGGCGCGCTGCTGTCCCCCGCGGGCGCGCACGACTTGAGACCTGCCACGGGCAGCCCC
CGGCCGCGGGTCCCCGAGTGACGCTGGCGGCACCTGAGAGTGTGGCGCGGGCCCCGGGGCCACGCAGCGGAGCCCA
GTGTCCAGTGAAGCGTCTGAGGACCCGCGCCCCGTGCCGCGGCCATGGTGATGTCCCAGGGCACCTACACGTTCC
TCACGTGCTTCGCCGGCTTCTGGCTCATCTGGGGTCTCATCGTCTGCTCTGCTGCTTCTGCAGCTTCCTGCGCC
GCCGCCTCAAACGGCGCCAGGAGGAGCGACTGCGCGAGCAGAACCTGCGCGCCCTAGAGCTGGAGCCCTCGAAC
TCGAGGGCAGTCTGGCCGGGAGTCCCCCGGGCCTGGCGCCGCGCAGCCACCACCACACCGTAGCCGCTGGAGG
CGCCGGCTCACGCGCACTCGCATCCGCACGTGCACGTGCACCCGCTGCTGCACCACGGGCCCCGCGCAGCCGCACG
CGCACGCGCACCCACACCCGCACCAACACGCGCTCCCGCACCCGCGCCCTACGCACCTGTCGGTGCCGCCACGGC
CCTGGAGCTACCCGCGCCAAGCGGAATCGGACATGTCCAAACCACCGTGTTACGAAGAGCGGTGCTGATGGCAG
AGCCGCCGCCGCCCTATAGCGAGGTGCTCACGGACACGCGCGGCCCTCTACCGCAAGATCGTCACGCCCTTCCTGA
GTCGCCGCGACAGCGCGGAGAAGCAGGAGCAGCGCCTCCAGCTACAAGCCGCTCTTCCTGGACCGGGCTACA
CCTCGGGCGCTGCACCTGCCAGCGCCCCCTCGGCCCGCGCGCCCTGCCAGCCCTCTGCCCTGCAGGCCGACCGTG
GCCGCCGGGTCTTCCCCAGCTGGACCGACTCAGAGCTCAGCAGCCGCGAGCCCCTGGAGCACGGAGCTTGCGCTC
TGCCGGTCTCCATCCCCTTGTTTCGGGAGGACTACAGCCGTTAGAGGGGCGCCCCGGCGCCCCGGGCCCCACCGC
GGACTCCTGGCCTGACTGCGGGGCTTTTTAAATGCTTCCCTGGACTGCGGGGAGGGGCGGGGGAGGGAGGGATT
TCTTATCCCGTTTGTTACATTTTGAAGATAATAAAGGTGTGTGATCTGGTTTGGTGAAAAAAAAAAAAAAAAAA
AAAAAAAAA

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FIGURE 1827

MVMSQGTYTFLTCTFAGFWLIWGLIVLLCCFCFLRRRLKRRQEERLREQNLRALALELEPLELEGLAGSPPGLAPP
QPPPHRSRLEAPAHASHPHVHVHPLLHHGPAQPHAHAPHPHHHALPHPPPTHLSVPPRPWSYPRQAESDMSKP
PCYEEAVLMAEPPPPYSEVLTDTRGLYRKIVTFPLSRSDSAEKQEPPPSYKPLFLDRGYTSALHLPSAPRPAPP
CPALCLQADRGRRVFPSWTDSELSSREPLEHGAWRLPVSIPLFGRTTAV

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FIGURE 1828

CTATTGATCTGGACTCCTGGATAGGCAGCTGGACCAACGGACGGACGCCATGAGGGCTCTGCTGCTCCTGGGGTT
CCTGCTGGTGAGCTTGGAGTCAACACTTTCGATTCCACCTTGGGAAGCCCCAAGGAGCATAAGTACAAAGCTGA
AGAGCACACAGTCGTTCTCACTGTCAACGGGGAGCCCTGCCACTTCCCCTTCCAGTACCACCGGCAGCTGTACCA
CAAATGTACCCACAAGGGCCGGCCAGGCCCTCAGCCCTGGTGTGCTACCACCCCAACTTTGATCAGGACCAGCG
ATGGGGATACTGTTTGGAGCCCAAGAAAGTGAAAGACCACCTGCAGCAAACACAGCCCCTGCCAGAAAGGAGGGAC
CTGTGTGAACATGCCAAGCGGGCCCCACTGTCTCTGTCCACAACACCTCACTGGAAACCACTGCCAGAAAGAGAA
GTGCTTTGAGCCTCAGCTTCTCCGGTTTTTCCACAAGAATGAGATATGGTATAGAACTGAGCAAGCAGCTGTGGC
CAGATGCCAGTGCAAGGGTCTCTGATGCCCACTGCCAGCGGCTGGCCAGCCAGGCCTGCCGCACCAACCCGTGCCCT
CCATGGGGGTCTGCTGCCTAGAGGTGGAGGGCCACCGCTGTGCCCACTGCCCGGTGGGCTACACCGGACCCTTCTG
CGACGTGGACACCAAGGCAAGCTGCTATGATGGCCGCGGGCTCAGCTACCGCGGCCTGGCCAGGACCACGCTCTC
GGGTGCGCCCTGTACGCCGTGGGCCTCGGAGGCCACCTACCGGAACGTGACTGCCGAGCAAGCGCGGAACCTGGGG
ACTGGGCGGCCACGCCTTCTGCCGAACCCGGACAACGACATCCGCCCGTGGTGCTTCGTGCTGAACCGCGACCG
GCTGAGCTGGGAGTACTGCGACCTGGCACAGTGCCAGACCCCAACCCAGGCGGCGCCTCCGACCCCGGTGTCCCC
TAGGCTTCATGTCCCACTCATGCCCGCGCAGCCGGCACCGCCGAAGCCTCAGCCCACGACCCGGACCCCGCCTCA
GTCCCAGACCCCGGAGCCTTGCCGGCGAAGCGGGAGCAGCCGCTTCCCTGACCAGGAACGCCCCACTGAGCTG
CGGGCAGCGGCTCCGCAAGAGTCTGTCTTCGATGACCCGCGTGGTGGCGGGCTGGTGGCGCTACGCGGGGCGCA
CCCCTACATCGCCGCGCTGTACTGGGGCCACAGTTTCTGCGCCGCGAGCCTCATCGCCCCCTGCTGGGTGCTGAC
GGCCGCTCACTGCCTGCAGGACCGGGCCGACCCGAGGATCTGACGGTGGTGTCTCGGCCAGGAACGCCGTAACCA
CAGCTGTGAGCCGTGCCAGACGTTGGCCGTGCGCTCCTACCGCTTGACAGAGGCCTTCTCGCCCGTCAGCTACCA
GCACGACCTGGCTCTGTTGCGCCTTCAGGAGGATGCGGACGGCAGCTGCGCGCTCCTGTGCGCTTACGTTACGCC
GGTGTGCTGCCAAGCGGCGCCGCGGACCCCTCCGAGACCACGCTCTGCCAGGTGGCCGGCTGGGGCCACAGTT
CGAGGGGGCGGAGGAATATGCCAGCTTCTGCAAGGAGCGCAGGTACCGTTCCCTCTCCCTGGAGCGCTGCTCAGC
CCCGGACGTGCACGGATCCTCCATCCTCCCCGGCATGCTCTGCGCAGGGTTCCCTCGAGGGCGGCACCGATGCGTG
CCAGGGTGATTCCGGAGGCCCCGTGGTGTGTGAGGACCAAGCTGCAGAGCGCCGGCTCACCCTGCAAGGCATCAT
CAGCTGGGGATCGGGCTGTGGTGACCGCAACAAGCCAGGCGTCTACACCGATGTGGCCTACTACCTGGCCTGGAT
CCGGGAGCACACCGTTTCCCTGATTGCTCAGGGACTCATCTTCCCTCCTTGGTGATTCCGCAGTGAGAGAGTGGC
TGGGGCATGGAAGGCAAGATTGTGTCCCATTCCTCCAGTGCGGCCAGCTCCGCGCCAGGATGGCGAGGAACCTCAA
TAAAGTGCTTTGAAAATGCTGAG

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FIGURE 1829

MRALLLLGFLLVSLSTLSIPPWEAPKEHKYKAEHTVVLTVTGEPCHFPFQYHRQLYHKCTHKGRPGPQPWCAT
TPNFDQDQRWGYCLEPKKVKDHCSKHSPCQKGGTCVNMPSGPHCLCPQHLTGNHCQKEKCFEPQLLRFFHKNEIW
YRTEQAAVARCQCKGPDHACQRLASQACRTNPLHGGRCLEVEGHRLLCHCPVGTYTGPFCDVDTKASCYDGRGLSY
RGLARTTILSGAPCQPWASEATYRNVTAEQARNWGLGGHAFCRNPDNDIRPWCFVLNRDRLSWEYCDLAQCQTPTQ
AAPPTPVSERLHVPLMPAQPAPEPKPQPTTRTPPQSQTGALPAKREQPPSLTRNGPLSCGQRLRKSLSMTRVVG
GLVALRGAPYIAALYWGHSCAGSLIAPCWVLTAAHCLQDRPAPEDLTVVLGQERRNHSCEPCQTLAVRSYRLH
EAFSPVSYQHDLALLRLQEDADGSCALLSPYVQPVCLPSGAARPSETTLCQVAGWGHQFEGAEYASFLQEAQVP
FLSLERCSAPDVHGSSILPGMLCAGFLEGGTDACQGDGGPLVCEDQAAERRLTQGIISWGSGCGDRNKPVGVT
DVAYYLAWIREHTVS

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FIGURE 1830

ATGGCGGCGGAAGGCTGGATTTGGCGTTGGGGCTGGGGCCGGCGGTGCCTGGGAAGGCCTGGGCTTCTCGGCCCC
GGCCCTGGCCCCACTACACCTCTCTTTCTTCTTTTGTGTGTGGGGTCTGTGACTGCGGATATAACTGACGGCAAC
AGTGAACATCTCAAGCGGGAGCATTGCTCATTAAGCCCTACCAAGGGGTTCGGTTCCAGCTCTATGCCCTCTGG
GACTTCCAGGGCAGCACTATGCTCACGAGCCAGTACGTACGTCTGACCCCTGACGAGCGCAGCAAAGAGGGCTCT
ATCTGGAACCAACAGCCGTGCTTCCTCAAAGACTGGGAAATGCACGTCCACTTCAAAGTCCACGGCACAGGGAAG
AAGAACCTCCATGGAGACGGCATCGCCTTGTGGTACACCCGGGACCGCCTCGTGCCAGGGCCTGTGTTTGAAGC
AAAGATAACTTCCACGGCTTAGCCATCTTCCTGGACACCTACCCCAATGATGAGACCACTGAGCGCGTGTTCCTG
TACATCTCGGTGATGGTGAACAATGGCTCCCTGTCTACGACCACAGCAAGGATGGGCGCTGGACCGAGCTGGCG
GGCTGCACGGCTGACTTCCGCAACCGCGATCACGACACCTTCCTGGCTGTGCGCTACTCCCGGGGCCGTCTGACG
GTGATGACCGACCTGGAGGACAAGAACGAGTGGGAAGAACTGCATTGACATCACGGGAGTGCGCCTGCCACCGGC
TACTACTTCGGGGCCTCCGCCGGCACCGGCGACCTGTCTGACAATCATGACATCATCTCCATGAAGCTGTTCCAG
CTGATGGTGGAGCACACGCCCCGACGAGGAGAGCATCGACTGGACCAAGATCGAGCCCAGCGTCAACTTCCTCAAG
TCGCCCCAAGACAACGTGGACGACCCACGGGGAACCTTCGCGAGCGGGCCCCTGACGGGGTGGCGGGTGTTCCTG
CTGCTGCTGTGCGCTCTCCTGGGCATCGTTGTCTGCGCCGTGGTGGGGGCCGTGGTGTTCAGAAGCGGCAGGAG
CGGAACAAGCGCTTCTACTGAGTGGCGCCTCCGGCGGGGCCTGTCCCTGGGCCCAGGAGCCAATGTGAACTTTTT
TTTTTACCGGGATTATAAAAGAACAACAAGATGACCTTATTTCTTAACTGTTTCAAATAAATGATTAAAGTATTT
TCATACATTTTGCTTCTTGCCCAGCAGGGACAGGTGGCAGAGCCGAGGCTTAGGGTCTGGCACCCCCACAGCTG
GAGACGGAGGCTCTCCTGGGGCTGGTGTCTCAGGAGCAGGGGTCTGTGTCTACAGATGGGCTGTGGCCCTGCAG
GCAGCTGTTGAACACTGGAGGGTCCCCCGGACCACACTGGGGTGGGCTCCTGAGGAC

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FIGURE 1831

MAAEGWIWRWGWGRRCLGRPGLLGPGPGPTTFLLLLLLGSVTADITDGNSEHLKREHSLIKPYQGVGSSSMPLW
DFQGSTMLTSQYVRLTPDERSKEGSIWNHQPCFLKDWEMHVHFKVHGTGKKNLHGDGIALWYTRDLVPGPVFGS
KDNFHGLAIFLDTYPNDETTERVFPYISVMVNNGSLSYDHSKDGRWTELAGCTADFRNRDHDFTFLAVRYSRGRLT
VMTDLEDKNEWKNCIDITGVRLPTGYFFGASAGTGDLSDNHDIISMKLFQLMVEHTPDEESIDWTKIEPSVNFLK
SPKDNVDDPTGNFRSGPLTGWRVFLLLLALLGIVVCAVVGAVVFQKRQERNKRFY

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FIGURE 1832

GGCACGAGGGCTTGCTCCGGCCGGCACCCCTAGGCCGGCCCGCCGCCAGCTGTCGCCGACATGGAACCCTTGGCCA
GCAACATCCAGGTCCTGCTGCAGGCGGCCGAGTTCCCTGGAGCGCCGTGAGAGAGAGGCCGAGCATGGTTATGCGT
CCCTGTGCCCGCATCGCAGTCCAGGCCCCATCCACAGGAGGAAGAAGCGACCCCCCAGGCTCCTGGCGCGCAGG
ACAGCGGGCGGTCACTGCACAATGAACTGGAGAAGCGCAGGAGGGCCAGTTGAAGCGGTGCCTGGAGCGGCTGA
AGCAGCAGATGCCCTGGGGGCCGACTGTGCCCGGTACACCACGCTGAGCCTGCTGCGCCGTGCCAGGATGCACA
TCCAGAAGCTGGAGGATCAGGAGCAGCGGGCCCGACAGCTCAAGGAGAGGCTGCGCAGCAAGCAGCAGAGCCTGC
AGCGGCAGCTGGAGCAGCTCCGGGGGCTGGCAGGGGCGGCCGAGCGGGAGCGGCTGCGGGCGGACAGTCTGGACT
CCTCAGGCCTCTCCTCTGAGCGCTCAGACTCAGACCAAGAGGAGCTGGAGGTGGATGTGGAGAGCCTGGTGTGTTG
GGGGTGAGGCCGAGCTGCTGCGGGGCTTCGTGCGCCGGCCAGGAGCACAGCTACTCGCACGGCGGGCGGCCTGGC
TATGATGTTTCCTCAGCCAGGGCGGGCCTCTGCCCTCTACTCGTGCCAGGCCCACTTGCCAGGCAGGAGCCCTCCC
CAAGCCTTCAGGGCTGCTCGGAGTCACCTGTTGGAATGGACTAAAAGGACCCTTGTTGTGGGAACAGGTGCTCCCC
AAACACCTTGCTGCTGGCTGCCAGGCAGGCCCTCTGGAAGGGAAGGGGCAGGACTCATCAGGACCTCCCTGGACC
CCTGCAGGGCAGGCAGCTTGGGCCGAGCCCAAGCATTGGCTCTGCTGCCCCCAAGGGGACAGGAAGCCTCTTG
GGCCTCTTCCCTTCCTGGACAAGGCCCCCTGCCTTTGCCTCACATAAACTGTACAGTATTTTCATTAAAGCCTC
TTTCATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1833

MEPLASNIQVLLQAAEFLERREREAEHGYASLCPHRSPGPIHRRKKRPPQAPGAQDSGRSVHNELEKRRRAQLKR
CLERLKQQMPLGADCARYTTLSLLRRARMHIQKLEDQEQRARQLKERLRSKQQSLQRQLEQLRGLAGAAERERLR
ADSLDSSGLSSERSDSQEELEVDVESLVFGGEAELLRGFVAGQEHSYSHGGGAWL

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FIGURE 1835

MVKYFLGQSVLRSSWDQVFAAFWQRYPNPYSKHVLTEDIVHREVTPDQKLLSRLLTKTNRMPRWAERLFPANVA
HSVYVLEDSIVDPQNQTMTTFTWNINHARLMVVEERCVCVNSDMSGWTEIRREAWVSSSLFGVSRVQEFGLAR
FKSNVTKTMKGFYILAKLQGEAPSKTIVETAKEAKEKAKETALAATEKAKDLASKAATKKQQQQQFV

FIGURE 1836

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCTGCCGCGTGACAGGGGTCGCGGCCGGCTGGAGCTGGGAGTGAGGCC
GCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGTGAG
AAGGAGATCGCGGCTGCTGCTGGCCCTGTTGGGGGTCTGCTGAGTGTGCTTGGGCTCCAGTCTTGTCCCTGGAG
GCCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCTG
GCACCTGCTGGCCGTGTACGGGGCTGGAGGGGGCCGCTAGAGATTGCCAGCTTCTACCTGAGGATGCTGGCCGC
TACCTCTGCCTGGCAGCAGGGCTCCATGATCGTCTGCAGAATCTCACCTTGATTACAGGTGACTCCTTGACCTCC
AGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTCGAATAGGCACAGTTACCCCCAGCAAGCACCCCTAC
TGGACACACCCCCAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCGCGTGTCCA
GCTGCAGGCAACCCACGCCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTCATGGGGAGAACC GCATTGGA
GGCATTGCGCTGCGCCATCAGCACTGGAGTCTCGTGATGGAGAGCGTGGTGCCCTCGGACCGCGGCACATACACC
TGCTTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCCGCACCGG
CCCATCCTGCAAGGCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTG
TACAGCGATGCCAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGT
TTCCCTATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTG
TCAGCCGAGGACGCAGGCGAGTACACCTGCCTCGCAGGCAATTCCATCGGCTCTCCTACCAGTCTGCCTGGCTC
ACGGTGTGCTGCCAGAGGAGGACCCACATGGACCGCAGCAGCGCCCGAGGCCAGGTATACGGACATCATCCTGTAC
GCGTGGGGCTCCCTGGCCTTGGCTGTGCTCCTGCTGCTGGCCGGGCTGTATCGAGGGCAGGCGCTCCACGGCCGG
CACCCCCGCCCCGCCACTGTGCAAGACTCTCCCGCTTCCCTCTGGCCCCGACAGTTCTCCCTGGAGTCAGGC
TCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCCTCTCTCCTCCAGCGGCCCGCCTTGCTCGCCGGC
CTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCCCGGGACAGGCTGGTGTCTGGGAAGCCCCTA
GGCAGGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCTTTGGCATGGACCCTGCCCGGCCGTGACCAAGCCAG
ACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGACCTGGCCGACCTGGTCTCGGAGATGGAGGTG
ATGAAGCTGATCGGCCGACACAAGAATCATCAACCTGCTTGGTGTCTGCAACCCAGGAAGGGCCCCCTGTACGTG
ATCGTGGAGTGCGCCGCCAAGGGAACCTGCGGGAGTTCTGCGGGCCCGCGCGCCCCCAGGCCCCGACCTCAGC
CCCGACGGTCTCTCGGAGCAGTGAGGGGCCGCTCTCCTTCCCAGTCTGGTCTCTGCGCCTACCAGGTGGCCCGA
GGCATGCAGTATCTGGAGTCCCGGAAGTGTATCCACCGGACCTGGCTGCCCGCAATGTGCTGGTGA CTGAGGAC
AATGTGATGAAGATTGCTGACTTTGGGCTGGCCCCGCGCGTCCACCACATTGACTACTATAAGAAAACCAGCAAC
GGCCGCTGCTGTGAAGTGGATGGCGCCCGAGGCCTTGTTTGACCGGTGTACACACACCAGAGTGACGTGTGG
TCTTTTGGGATCTTGCTATGGGAGATCTTACCCTCGGGGGCTCCCCGTATCCTGGCATCCCGGTGGAGAGCTG
TTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCCACACTGCCCCCAGAGCTGTACGGGCTGATGCGT
GAGTGTGTCACGCAGCGCCCTCCCAGAGGCCTACCTTCAAGCAGCTGGTGGAGCGCTGGACAAGGTCTCTGCTG
GCCGTCTCTGAGGAGTACCTCGACCTCCGCTGACCTTCGGACCCTATTCCCTCTGTGTTGGGACGCCAGCAGC
ACCTGCTCCTCCAGCGATTCTGTCTTCAGCCACGACCCCTGCCATTGGGATCCAGCTCCTTCCCTTTCGGGTCT
GGGGTGCAGACATGAGCAAGGCTCAAGGCTGTGCGAGGCACATAGGCTGGTGGCCTTGGGCCTTGGGGCTCAGCCA
CAGCCTGACACAGATGCTGACCTTGAAGTATGAGGAGTGGGGCCCCGCGCCAGAGTTGCTGTGCCGTGTCCAAGGGCCGT
GCCCTTGCCCTTGGAGTGTGCCGTGCTGTGCTGATGGCCCCAAATGTCAGGGTCTGCTCGGCTTCTTGGACCA
TGGCGCTTAGTCCCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGAGCTGCTATGCTAAACCTCCTGCCTCCCAAT
ACCAGCAGGAGGTTCTGGGCCTCTGAACCCCTTTCCCCACACCTCCCCCTGCTGCTGCTGCCCCAGCGTCTTGA
CGGGAGCATTGGCCCCCTGAGCCCAGAGAAGCTGGAAGCCTGCCGAAAACAGGAGCAAATGGCGTTTTATAAATTA
TTTTTTTGAATAAA

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FIGURE 1837

MRLLLALLGVLLSVP GPPVLSLEASEEVELEPC LAP SLEQQEQELTVALGQPVRLCCGRAERGGHWHYKEGSRLAP
AGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSLTSNDDDEPKSHRDLSNRHSYPQQAPYWT
HPQRMKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLVMESVVP SDRGTYTCL
VENAVGSIRYNYLLDV LERSPHRPILQAGLPANTTAVVGS DVELLCKVYSDAQPHIQWLKHIVINGSSFGADGFP
YVQVLKTADINSSEVEVLYLRNVSAEDAGEYTC LAGNSIGLSYQSAWLTVLPEEDPTWTAAAP EARYTDIILYAS
GSLALAVLLLLAGLYRGQALHGRHPRPPATVQKLSRFPLARQFSLESGSSGKSSSSLVRGVRLSSSGPALLAGLV
SDDLPLDPLWEFPRDRLVLGKPLGEGCFGQVVRAEAFGMDPARPDQASTVAVKMLKDNASDKDLADLVSEMEVMK
LIGRHKNIINLLGVCTQEGPLYVIVECAAKGNLREFLRARRPPGPDLSPDGPRSSEGPLSFPLVSCAYQVARGM
QYLESRKCIHRDLAARNVLVTEDNVMKIADFGLARGVHHIDYYKKT SNGRLPVKWM APEALFDRVYTHQSDVWSF
GILLWEIFTLGGSPYPGIPVEELFSLREGHRMDRPPHCPPELYGLMRECWHAAPSQRPTFKQLVEALDKVLLAV
SEEYLDLRLTFGPYSPSGGDASSTCSSSDSVF SHDPLPLGSSSFPGSGVQT

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FIGURE 1838

CCGAGGAGCGCTCGGGCTGTCTGCGGACCCCTGCCGCGTGCAGGGGTGCGGGCCGGCTGGAGCTGGGAGTGAGGCG
GCGGAGGAGCCAGGTGAGGAGGAGCCAGGAAGGCAGTTGGTGGGAAGTCCAGCTTGGGTCCCTGAGAGCTGTGAG
AAGGAGATCGGGCTGTCTGCTGGCCCTGTTGGGGGTCTCTGCTGAGTGTGCCTGGGCCTCCAGTCTTGTCCCTGGAG
GCCTCTGAGGAAGTGGAGCTTGAGCCCTGCCTGGCTCCAGCCTGGAGCAGCAAGAGCAGGAGCTGACAGTAGCC
CTTGGGCAGCCTGTGCGGCTGTGCTGTGGGCGGGCTGAGCGTGGTGGCCACTGGTACAAGGAGGGCAGTCGCCCTG
GCACCTGTCTGGCCGTGTACGGGGCTGGAGGGGCCGCTAGAGATTGCCAGCTTCCTACCTGAGGATGCTGGCCGC
TACCTCTGCCTGGCAGGAGGCTCCATGATCGTCTGCAGAACTCACCTTGATTACAGGTGACTCCTTGACCTCC
AGCAACGATGATGAGGACCCCAAGTCCCATAGGGACCTCTCGAATAGGCACAGTTACCCCCAGCAAGCACCCCTAC
TGGACACACCCCCAGCGCATGGAGAAGAACTGCATGCAGTACCTGCGGGGAACACCGTCAAGTTCCGCTGTCCA
GCTGCAGGCAACCCACGCCCACCATCCGCTGGCTTAAGGATGGACAGGCCTTTCATGGGGAGAACCGCATTGGA
GGCATTCCGGCTGCGCCATCAGCACTGGAGTCTCGTGTGAGAGCGTGGTGCCTCGGACCGCGGCACATACACC
TGCCTGGTAGAGAACGCTGTGGGCAGCATCCGCTATAACTACCTGCTAGATGTGCTGGAGCGGTCCCCGACCGG
CCCATCCTGCAGGCCGGGCTCCCGGCCAACACCACAGCCGTGGTGGGCAGCGACGTGGAGCTGCTGTGCAAGGTG
TACAGCGATGCCCAGCCCCACATCCAGTGGCTGAAGCACATCGTCATCAACGGCAGCAGCTTCGGAGCCGACGGT
TTCCCCATATGTGCAAGTCTTAAAGACTGCAGACATCAATAGCTCAGAGGTGGAGGTCTGTACCTGCGGAACGTG
TCAGCCGAGGACGCAGGCGAGTACACCTGCCCTCGCAGGCAATTCATCGGCCTCTCCTACCACTGCTGCTGGCTC
ACGGTGTCTGCCAGGTACTGGGCGCATCCCCACCTCACATGTGACAGCCTGACTCCAGCAGGCAGAACCAAGTCT
CCCACCTTTCAGTCTCTCCCTGGAGTCAGGCTCTTCCGGCAAGTCAAGCTCATCCCTGGTACGAGGCGTGCCTCTC
TCCTCCAGCGGCCCCGCTTGTCTCGCCGGCCTCGTGAGTCTAGATCTACCTCTCGACCCACTATGGGAGTTCCCC
CGGGACAGGCTGGTGTCTGGGAAGCCCCCTAGGCGAGGGCTGCTTTGGCCAGGTAGTACGTGCAGAGGCCCTTGGC
ATGGACCTGCCCCGGCTGACCAAGCCAGCACTGTGGCCGTCAAGATGCTCAAAGACAACGCCTCTGACAAGGAC
CTGGCCGACCTGGTCTCGGAGATGGAGGTGATGAAGCTGATCGGCCGACACAAGAACATCATCAACCTGCTTGGT
GTCTGCACCCAGGAAGGGCCCCCTGTACGTGATCGTGGAGTGCGCCGCCAAGGGAAACCTGCGGGAGTTCTTGCGG
GCCCCGCGCCCCCAGGCCCGACCTCAGCCCCGACGGTCTCGGAGCAGTGAGGGGCCGCTCTCCTTCCCAGTC
CTGGTCTCCTGCGCCTACCAGGTGGCCCCGAGGCATGCAGTATCTGGAGTCCCGGAAGTGTATCCACCGGGACCTG
GCTGCCCGCAATGTGCTGGTGACTGAGGACAAATGTGATGAAGATTGCTGACTTTGGGCTGGCCCCGCGCTCCAC
CACATTGACTACTATAAGAAAACCAGCAACGGCCGCTGCCTGTGAAGTGGATGGCGCCCCGAGGCCCTGTTTGAC
CGGGTGTACACACACCAGAGTGACGTGTGGTCTTTTGGGATCCTGCTATGGGAGATCTTACCCTCGGGGGCTCC
CCGTATCCTGGCATCCCGGTGGAGGAGCTGTTCTCGCTGCTGCGGGAGGGACATCGGATGGACCGACCCCCACAC
TGCCCCCAGAGCTGTACGGGCTGATGCGTGAGTGTCTGGCAGCGAGCGCCCTCCCAGAGGCCTACCTTCAAGCAG
CTGGTGGAGGCGCTGGACAAGGTCTGCTGGCCGTCTCTGAGGAGTACCTCGACCTCCGCCTGACCTTCGGACCC
TATTCCCCCTCTGGTGGGGACGCCAGCAGCACTGCTCCTCCAGCGATTCTGTCTTCAGCCACGACCCCTGCCA
TTGGGATCCAGCTCCTTCCCCTTCGGGTCTGGGGTGCAGACATGAGCAAGGCTCAAGGCTGTGACGGCACATAGG
CTGGTGGCCTTGGGCTTGGGGCTCAGCCACAGCCTGACACAGTGTCTGACCTTGATAGCATGGGGCCCTGGCC
CAGAGTTGCTGTGCCGTGTCCAAGGGCCGTGCCCTTGCCCTTGGAGCTGCCGTGCCTGTGTCTGATGGCCAAA
TGTGAGGGTTCTGCTCGGCTTCTTGGACCATGGCGCTTAGTCCCCATCCCGGGTTTGGCTGAGCCTGGCTGGAGA
GCTGCTATGCTAAACCTCCTGCCTCCCAATACCAGCAGGAGGTTCTGGGCCTCTGAACCCCTTTCCCCACACCT
CCCCCTGCTGCTGCTGCCCGAGCGTCTTGACGGGAGCATTGGCCCTGAGCCCAGAGAAGCTGGAAGCCTGCCGA
AAACAGGAGCAAATGGCGTTTTATAAATTATTTTTTTGAAATAAA

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FIGURE 1839

MRLLLALLGVLLSVPGPPVLSLEASEEVELEPCCLAPSLEQQEQELTVALGQPVRLCCGRAERGGHWHYKEGSRLAP
AGRVRGWRGRLEIASFLPEDAGRYLCLARGSMIVLQNLTLITGDSLTSNDDDEPKSHRDLSNRHSYPQQAPYWT
HPQRMKKLHAVPAGNTVKFRCPAAGNPTPTIRWLKDGQAFHGENRIGGIRLRHQHWSLVMESVVPSDRGTYTCL
VENAVGSIRYNYLLDVLERSPHRPILQAGLPANTTAVVGSDELCKVYSDAQPHIQWLKHIVINGSSFGADGFP
YVQVLKTADINSSEVEVLYLRNVSAEDAGEYTCLAGNSIGLSYQSAWLTVLPGTGRIPHLTCDSLTPAGRTKSPT
LQFSLESGSSGKSSSSLVRGVRLSSSGPALLAGLVSLDLPLDPLWEFPRDRLVLGKPLGEGCFQGVVRAEAFGMD
PARPDQASTVAVKMLKDNASDKDLADLVSEMEVMKLIGRHKNIINLLGVCTQEGPLYVIVECAAKGNLREFLRAR
RPPGPDLSPDGPRSEGLSFPVLVSCAYQVARGMQYLESRKCIHRDLAARNVLVTEDNVMKIADFLARGVHHI
DYYKKTSGRLPVKWMPEALFDRVYTHQSDVWSFGILLWEIFTLGGSPYPGIPVEELFSLREGHRMDRPPHCP
PELYGLMRECWAAPSQRPTFKQLVEALDKVLLAVSEEYLDLRLTFGPYSPSGGDASSTCSSSDSVFSDHPLPLG
SSSFPFGSGVQT

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FIGURE 1840

GGCACC GCGCGGGACGGAGCTTGGCTGTTGGTCGGTGGGTTCCTGTCGGCGGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGIGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGC
CTTCCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCATCGGCGGCGAGGAGCCGCGCGCCTCGGCCTAGCA
TGTCGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGGGCGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
GCGAGTCGCCGGCGGGGCTGGCACGGGCGCCGCGGGGGGCTGGAGGCGCGACCGCGGCGCCCCGAGCGGGA
ATCAGAACGGCGCCGAGGGCGACAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTGTTGGTG
GCCTGAGCTGGGATACTAGCAAAAAAGATTAAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAA
TAAAAATGGATCCCAACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGA
AGGTCCTAGACCAGAAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGG
ACCCGGTGAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCG
AGTTTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTGTGTTTATCA
CCTTTAAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAGTTCCATACTGTCAGTGGAAGCAAGTGTGAGA
TCAAGGTGGCCAGCCCAAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCGGTGGAACCGCAACCGAG
GGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGAGGTAGTACAACTACGGCAAGAGCCAGCGACGTG
GTGGCCATCAGAATACTACAAGCCATACTGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTT
TGGATATGGAGTGAACACAATTATGTACCAAATTTAACTTGGCAAACTTTCTATTGCCTGTCCCATGTGCATCTT
ATTAAAAATTTCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCAGAAGCAGGTGGGAGGCTCTGC
TTCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACCAAGTG
TCACCTTTTTTACCTTTTAATTTTATATTATTGCGTCATACATTTCTGTAAACGGAAGTGTAAATTTTACTG
TACTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTTGCCACAACCTGG
ATATTGAAGCTATCCAAGCTTTTGAATAAAATTTAAAAACCCCAAGCCTGGGTGAGTGTGGG

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FIGURE 1841

GGCACCGCGCGGGACGGAGCTTGGCTGTTGGTCGGTGGGTTCCCGTGCGGCGGCGGCCAAGGAGGAGGAGACACA
GTTGGAGCAGCTCCGTGGGCTGACTGGGGCGAGGCCTCAGCAGCGCGAGCTTGAGTGCGGCCGAGCCTGCGGCGC
CTTCCCCTGCGGGTGGGGACGAGCGGGCCCCGCGGCGTCAICGCGGCGGAGGAGCCGCCGCGCCTCGGCCCTAGCA
TGTGGAAGCGGGCGAGGAGCAGCCCATGGAGACGACGCGGCCACCGAGAACGGACATGAGGCCGTCCCCGAAG
GCGAGTCGCGGCGGGGCTGGCACGGGCGCGCGCGGGGGCTGGAGGCGCGACCGCGGCGCCCCGAGCGGGA
ATCAGAACGGCGCGGAGGGCGACCAGATCAACGCCAGCAAGAACGAGGAGGACGCGGGAAAAATGTTCTGTTGGTG
GCCTGAGCTGGGATACTAGCAAAAAAGATTTAAAAGACTATTTTACTAAATTTGGAGAGGTCGTTGACTGTACAA
TAAAAATGGATCCCAACACTGGACGGTCAAGAGGGTTTGGGTTTATCCTGTTCAAAGATGCAGCCAGTGTGGAGA
AGGTCCCTAGACCAGAAGGAGCACAGGCTGGATGGCCGTGTCATTGACCCTAAAAAGGCCATGGCTATGAAGAAGG
ACCCGGTGAAGAAAATCTTCGTTGGGGGTCTGAATCCTGAAGCCACTGAGGAAAAGATCAGGGAGTACTTTGGCG
AGTTTGGGGAGATTGAGGCCATTGAATTGCCAATGGATCCAAAGTTGAACAAAAGACGAGGTTTTGTGTTTATCA
CCTTTAAAGAAGAAGAACCCGTGAAGAAGGTTCTGGAGAAAAAGTTCCATACTGTCAAGTGGAAAGCCAGTGTGAGA
TCAAGGTGGCCCGAGCCCAAGAAGTCTATCAGCAGCAGCAGTATGGCTCTGGGGGCCGTGGAAACCGCAACCGAG
GGAACCGAGGCAGCGGAGGTGGTGGTGGAGGTGGAGGTAGTACAACTACGGCAAGAGCCAGCGACGTG
GTGGCCATCAGAATAACTACAAGCCATACTGAGGCGGCAGCAGGAGCGACCAACTGATCGCACACATGCTTTGTT
TGGATATGGAGTGAACACAATTATGTACCAAAATTTAACTTGGCAAATTTCTATTGCCTGTCCCATGTGCATCTT
ATTTAAATTTTCCCCATGGAAATCACTCTCCTGTTGACTATTTCCAGAGCTCTAGGTGTTTAGGCAGCGTGTGG
TGCTGAGAGGCCATAGCGCCATCATGGGCTGATTTTTATTACCAGGTCCCCCAGAAGCAGGTGGGAGGCTCTGC
TTCCTGCTGCCGCTCTGCAGCCTGGACCTGTGGACCCTGGTTGTAAAGAGTAAATTGTATCTTAGGAAACCAAGTG
TCACCTTTTTTTTACCTTTTAAATTTTATATTATTTGCGTCATACATTTCCGTGAACGGAAGTGTTAATTTTACTG
TACTTTTTTGGTACCTTTTGGGAATCTAATGTATTGTAAGGTATTTTACACGTGTCCTGATTTTGCCACAACCTGG
ATATTGAAGCTATCCAAGCTTTTGAATAAAATTTAAAAACCCCAAGCCTGGGTGAGTGTGGG

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FIGURE 1842

GAAATGTCTTACGATGATCATTAGAGGTTTATTTTGAACAACCTGGCAATTCCACGAATGATGGAATAAACATA
TGAAGTAGAAGGACTGGAACCTCCAGAAAAAGTACTTTAAGTTACCTACAGGTGATCCTAGTCAGGTATGAATTG
ATAAGAAATGCCTGCACCTTCCCTCCTTCTATCTTTCCCTTGCCCTACAGAAAATTAAAAGGCAAAACAATGGAC
ATCTACATATTCTTCATTTCAGATCAACCAGTGGCTAGCATTGGCCACCTTTTGCAGTTTCTTCTCTTTCCATAA
GTACTTTCTTCTCTGAATCATTGAAAGCAAATGAAAACAGTAGCCTAAAGTGTGAGTTTCAACCAGAAAATAAC
AGCTCTGATTTCTCATGGCTCACACTCTTCTGAAACGACTCGGGTAGAGGCTGAGGAAGGCCGTGTTGTTTGTCT
ACCTGGGACTAGTGGGATGAGAGACTGAGAAAAGAAATAAGACACGGAGACAAAGTACAGAGAAAGAACAGCGGG
CCCAGGAGACCGGCACTCAGCATACGGAGGACCAGCACTGGCACC GGCTCTGAGTTCCCTCAGTTTATTGATTA
CCATTTTCAGTGTCTCAGCAAGAGGAATGCGGTAGGAGAGCAGGGTGTGAGCAAGAAAACCTGTGAGCCTTTCTT
TTCGCTGCTGCGGCCGAGCCATGAGCATGCTCGGGCCTCAGAAGAGGCTCGCCTCTAGTGTCTCCGCTGTGGC
AAGAAGAAGGTCTGGTTAGACCCCACTGAGACCAATGAAATCGCCAATGCCAATCCCGTCAGCAGATCCGGAAG
CTCATCAAAGACGGGCTGATCATCCGCAAGCCTGTGACGGTCCATTCCCGGGCTCGATGCCGGA AAAACACCTTG
GCCCGCCGGAAGGGCAGGCACGTGGCCATAGGTGAGCAGAAGGGTACAGCCAATGCCCGAATGCCAGAGAAGGTC
ACATGGATGAGGAGAATGACGATTTTGCGCCGGCTGCTCAGAAGATAACCGTGAATCTAAGAAGATCGATCGCCAC
ACGTATCACAGCCTGTACCTGAAGGTGAAGGGGAATGTGTTCAAAGACAAGCGGATTCTCATGGAACACATCCAC
AAGCTGAAGGCAGACAAGGCCCGCAAGAAGCTCCTGGCTGACCAGGCTGAGGCCCGCAGGTCTAAGACCAAGGAA
GCAGGCAAGTGCCCTGAAGAGCGCCTCCAGGCCAAGAAGGAGGAGTTTCATCAAGACTTTATCCAAGGAGGAAGAG
ACCAAGAAATAAAAGCTCCCCCTTTGTCTGTACATACTGGCCTCTGTGATTACATAGATCAGCCATGAAAATAAA
ACAAGCCTTAA

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FIGURE 1843

GGCACGAGGCGCCCATCCTGGGAAGGGGCCCCGGAGTGTGAGAGAGAGACTCCCCACGCCCATCCTGGAAAGGAG
CCCGGAGTGTGAGCTGAGTGGTCCGAGCTATACCTGTGGACATTGGTTTCTCCATTGAAGAGCTGGAGGACCTTT
ACATGGTGTTTAAGGCCAAGCACCTGGCTAGCCAGTACTGGGGGTGCAGCCGCACAATGGCGGCCGTCGGGACC
CCAGCCTGCCCTACCTGGAGCAGTACCGGATTGATGCCAGCCAGTTCCGGGAACCTTTGCCAGCCTGACACCCT
GGGCCTGTGGCTCCACACACCTCTGCTGGCAGGGCGCATGTTTCAGGCTCCTGGACGAAAACAAGGACTCGCTGA
TCAACTTCAAGGAGTTCGTGACAGGGATGAGCGGGATGTACCACGGGTACCTGACAGAGAAGCTCAAGGTGCTCT
ACAAGCTACACCTTCCCCAGCTCTGAGCCCAGAGGAAGCCGAGTCAGCCCTGGAGGCGGCCATTATTTCACAG
AGGACAGCTCCTCAGAAGAAGCACTACCACAGGAAGAGCAAGAAGGAAGTGGAAGTGAGGAGAGAGGAGAGGAGA
AGGGGACCAGCTCTCCGGACTATCGGCACCTACCTTCGAATGTGGGCCAAGGAGAAAGAGGCTCAGAAGGAGACGA
TTAAGGATCTTCCCAAGATGAACCAGGAGCAGTTTATTGAGCTGTGCAAGACGCTTTACAACATGTTTCAGTGAAG
ACCCCATGGAGCAGGACCTGTACCACGCCATCGCCACCGTGGCCAGCCTCCTGCTCCGCATCGGAGAGGTGGGGA
AGAAGTTCTCAGCCCGCACAGGCAGGAAGCCCAGGGAAGTGTGCCACTGAGGAGGACGAGCCACCAGCACCCGAAC
TGCATCAGGACGCAGCCAGGGAGCTTCAGCCCCAGCTGCAGGAGACCCCCAAGCCAAAGCAGGCGGAGACACAC
ACCTCGGAACAGCCCCACAGGAGAGCCAGGTGGTGGTGGAGGGGGCAGCGGCGAGGGACAGGGCTCACCTCCC
AGCTGCTGTCTGACGATGAAACCAAGACGACATGTCCATGTCTCCTACTCGGTGGTCAGCACGGGCTCCCTGC
AATGTGAAGACCTTGACAGCAGACCGGTGCTGGTGGGCGGGAGGCCTGCAGCCCCACAGCGCGCATCGGCGGCA
CCGTCGACACCGACTGGTGCATCTCCTTTGAGCAGATCCTGGCCTCCATCCTGACGGAGTCCGTGCTGGTGAAGT
TCTTTGAGAAGAGAGTGGACATTTGACTCAAGATCAAGGACCAAAAGAAAGTGGAGAGACAGTTTCAGCACCGCCA
GTGACCATGAGCAGCCTGGAGTTTCCGGCTTGATGCCTGCAGCTGTGAGGCCTGGCCCAAGGTGTATCAGTGGGG
CTGGCCTCATCTCCTCCTGCCTTTCTCCTTATCAGTTTCTCTTTAAAGGTGTGCCCTCCTGCTCTCCAGGA
GCAGTGAGTGTGAGTGGAAAGAAGGCTGGTGCAGACCCAGCTGCCTTAGACAGATTCCCTGGGCTGCATCTCC
TGGCSCCGGCTGCTTCTGGGCCAGGAAGAGGCTGTGGCTCCACCTTCTTTACACCTGGTGGGAGCCCGCTCG
CACCAGCTGCACCTGCCTAGCATTAGAGGCTCTCAGATCTGCCCTTGCTTGCTCATACCTCTGTGCTCCACACT
CGGGCCAGGCCAGCTGAGTCCCTCCATCCGTGGATGCTTTCTGTCAGCTATGTGGTATGGGGGTCTCTCCTGCCT
CTTGSCACCAGGTTGGGGGGCATGTGCTTGTGGGCACCAAGTGATGGAACCCCTCAGGTGCTCTCCGGGAGCCT
GAACCTCCTGACTGAGGAACATGGGCAGAACATGTTTATTGCACAGAGTGGGCGCTGCGCACAGGCGTGGCTGTA
CACGTGCTCTCAGCTCATCATCCTTTCCAGTAACCTTAAAAAAACATCCCTCAGGTCTGATATATTTCTTGGTA
TTCAATTTCACTTGGCTAGAAATTACACTGTGCTCAATGCCTTAATAAATCCCTGAAAGAAATAAAAACCACTGTG
TGCAATGCCTTGTGTGGCCCCAACCAGTGTAGGCCTCCCAACTTCTCCCAGGCCAAGTATGGGGCCCTGG
CTGTGTTCTGGAAGTTCAAGACACTTAGTCCTCCACAGTGGGTGGAAGAGTGCAAGGTCTGCCAGGTGAGATGGA
GACGCAGAACCTGCTGGTGCAGCTGGGCAGGTCTTGACCAACCTGCATCAGGGGATGCCCTGAGCTCCACAGGT
CTTCATGGGCAGGGGTTGTGGGTCTGGTGAAGGAAGTGATCCTCAGGCCTGGGCTGTAGCAAGCTGTCTGCC
TTGGGTTCAAGAACCAGACTGTGGAGCCAAAGGTGACCGCAGGGGGCCCCAGGGCTGGAGCCACAAGGATACCCCT
CACTTTGCTAGAGGAGCTGAACTGACCAAGTGTCCAGTGTAGCCCCACATGGGGCTGCTCTTGTCTTACTAA
AAGATACAGCAGTTACCCCTTATCCACAGGGGATACAGTGGATATCTAAAACCAAGACCCCAAGTGGATGTCTAA
AACCACAGATAATAACAAACCTTATACATACTGTTTTTCTATGCATACATACCTGTGATTAAGTTTATGAATT
AGGCACCTTAAGAGATTGACAACAATAACTAATAATAAAATGTAACGGTTATACTGTAAAAA
AAAAAAAAAAAAAAAAAAAAA

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FIGURE 1844

MAGRRDPSLPYLEQYRIDASQFRELFASLTPWACGSHTPLLAGRMFRLDENKDSLINFKEFVTGMSGMYHGylT
EKLKVLyKLHLPPALSPEEAESALEAAHYFTEDSSSEEALPQEEQEGSGSEERGEKGTSSPDYRHylRMWAKEK
EAQKETIKDLPKMNQEQFIELCKTLYNMFSEDPMEQDLYHAIATVASLLLRIGEVGKKFSARTGRKPRDCATEED
EPPAPELHQDAARELQPPAAGDPQAKAGGDTHLGTAPQESQVVVEGGSGEGQGPSQLLSDDETKDDMSMSSYSV
VSTGSLQCEDLADDTVLVGGEACSP TARIGGTVDTDWCISFEQILASILTESVLVNFFEKRVDIGLKIKDQKKVE
RQFSTASDHEQPGVSG

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FIGURE 1845

GCGCGGCGGCTGCGACCGGGACGGCCCGTTTTCCGCCAGCTCGCCGCTCGCTATGGCGTCGCTCACCGTGAAGGC
CTACCTTCTGGGCAAGGAGGACGCGGCGCGGAGATTGCGCGCTTCAGCTTCTGCTGCAGCCCCGAGCCTGAGGC
GGAAGCCGAGGCTGCGGCGGGTCCGGGACCCTGCGAGCGGCTGCTGAGCCGGGTGGCCGCCCTGTTCCCCGCGCT
GCGGCCTGGCGGCTTCCAGGCGCACTACCGCGATGAGGACGGGGACTTGGTTGCCTTTTCCAGTGACGAGGAATT
GACAATGGCCATGTCTACGTGAAGGATGACATCTTCCGAATCTACATTAAAGAGAAAAAGAGTGCCGGCGGGA
CCACCGCCACCGTGTGCTCAGGAGGCGCCCCGCAACATGGTGCACCCCAATGTGATCTGCGATGGCTGCAATGG
GCCTGTGGTAGGAACCCGCTACAAGTGACGCTGCTGCCCAGACTACGACTTGTGTAGCGTCTGCGAGGGAAGGG
CTTGACCGGGGGCACACCAAGCTCGCATTCCCCAGCCCCTTCGGGCACCTGTCTGAGGGCTTCTCGCACAGCCG
CTGGCTCCGGAAGGTGAAACACGGCACTTCGGGTGGCCAGGATGGGAAATGGGTCCACCAGGAACTGGAGCCC
ACGTCTCTCTCGTGACGGGGAGGCCCCGCTTGGCCCCACGGCAGAAATCAGCTTCTGGTCCATCGGAGGATCCGAG
TGTGAATTTCTGAAAGACGTTGGGGAGAGTGTGGCAGCTGCCCTTAGCCCTCTGGGCATTGAAGTTGATATCGA
TGTGGAGCACGGAGGGAAAAGAAGCCGCTGACCCCCGTCTCTCCAGAGAGTTCCAGCACAGAGGAGAAGAGCAG
CTCACAGCCAAGCAGCTGCTGCTCTGACCCAGCAAGCCGGGTGGGAATGTTGAGGGCGCCACGCAGTCTCTGGC
GGAGCAGATGAGGAAGATCGCCTTGAGTCCGAGGGGCGCCCTGAGGAACAGATGGAGTCGGATAACTGTTTCAGG
AGGAGATGATGACTGGACCCATCTGTCTTCAAAGAAGTGGACCCGTCTACAGGTGAACTCCAGTCCCTACAGAT
GCCAGAATCCGAAGGGCCAAGCTCTCTGGACCCCTCCCAGGAGGGACCCACAGGGCTGAAGGAAGCTGCCTTGTA
CCCACATCTCCCGCCAGAGGCTGACCCGCGGCTGATTGAGTCCCTCTCCAGATGCTGTCCATGGGCTTCTCTGA
TGAAGGCGGCTGGCTCACCAGGCTCCTGCAGACCAAGAACTATGACATCGGAGCGGCTCTGGACACCATCCAGTA
TTCAAAGCATCCCCGCGGTTGTGACCACTTTTGCCACCTCTTCTGCGTGCCCTCTTCTGTCTCATAGTTGTG
TTAAGCTTGCGTAGAATTGCAGGTCTCTGTACGGGCCAGTTTCTCTGCCTTCTTCCAGGATCAGGGGTTAGGGTG
CAAGAAGCCATTTAGGGCAGCAAAACAAGTGACATGAAGGGAGGGTCCCTGTGTGTGTGTGTGCTGATGTTTCCT
GGGTGCCCTGGCTCCTTGCAGCAGGGCTGGGCCTGCGAGACCCAAGGCTCACTGCAGCGCGCTCCTGACCCCTCC
CTGCAGGGGCTACGTTAGCAGCCCAGCACATAGCTTGCCTAATGGCTTTCAGTTTCTCTTTTGTGTTTAAATGACT
CATAGGTCCCTGACATTTAGTTGATTATTTCTGCTACAGACCTGGTACACTCTGATTTTAGATAAAGTAAGCCT
AGGTGTTGTCAGCAGGCAGGCTGGGGAGGCCAGTGTTGTGGGCTTCTGCTGGGACTGAGAAGGCTCACGAAGGG
CATCCGCAATGTTGGTTTCACTGAGAGCTGCCTCCTGGTCTCTTACCAGTGTAGTTCTCTCATTTCCAAACCAT
CAGCTGCTTTTAAATAAGATCTCTTTGTAGCCATCTGTAAATTTGTAAACAATCTAATTAAATGGCATCAGC
ACTTTAACCAAT

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FIGURE 1846

TGCAGCCTCGGCCCCGCGGGCGCCCGCGCGCACCCGAGGAGATGAGGCTCCGCAATGGCACCTTCTGACGCTG
CTGCTCTTCTGCTGTGCGCCTTCTCTCGCTGTCTGGTACGCGGCACTCAGCGGCCAGAAAGGCGACGTTGTG
GACGTTTACCAGCGGGAGTTCTTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGGAGAGCCTCAAGCGCTCC
AAGGAGCTCAACCTGGTGTGACGAGATCAAGAGGGCCGTGTCAGAAAGGCAGGCGCTGCCGAGACGGAGACGGC
AATCGCACCTGGGGCCGCTAACAGAGGACCCCGATTGAAGCCGTGGAACGGCTCACACCGGCACGTGCTGCAC
CTGCCCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGCCCGCGGTGCGCGTGGGC
CAGGGCCGACCGGAGTGTGGTGGTGTATGGGCATCCCGAGCGTGGCGCGCGAGGTGCACTCGTACCTGACTGAC
ACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTTCATCGTGGTGTGATCGCCGAG
ACTGACTCACAGTACACTTCGGCAGTGACAGAGAACATCAAGGCCTTGTTCCTCCACGGAGATCCATTCTGGGCTC
CTGGAGGTTCATCTACCCCTCCCCCACTTCTACCTGACTTCTCCCGCCTCCGAGAGTCTTTGGGGACCCCAAG
GAGAGAGTCAGGTGGAGGACCAACAGAACCTCGATTACTGCTTCTCATGATGTACGCGCAGTCCAAAGGCATC
TACTACGTGCAGCTGGAGGATGACATCGTGGCCAAGCCCACTACCTGAGCACCATGAAGAACTTTGCACTGCAG
CAGCCTTCAGAGGACTGGATGATCCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGATGTTCAAGTCGCTGGAC
CTGAGCCTGATTGTAGAGTTCACTCTCATGTTCTACCGGGACAAGCCCATCGACTGGCTCCTGGACCATATTCTG
TGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCAACTGCGGATCCGCTTC
AAACCGTCCCTCTTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGAACTGAAGGACAAAGAC
TTTGGAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGAGCCTGAAGACATACCAG
CACTTCACCCCTGGAGAAAGCCTACCTGCGCGAGGAATTCTTCTGGGCCTTCACCCCTGCGCGGGGGACTTCATC
CGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTTCCGAGTGGGAACATCGAGCACCCGGAGGAC
AAGCTCTTCAACACGTCTGTGGAGGTGCTGCCCTTCGACAACCCTCAGTCAGACAAGGAGGCCCTGCAGGAGGGC
CGCACCGCCACCCCTCCGGTACCCCTCGGAGCCCCGACGGCTACCTCCAGATCGGCTCCTTCTACAAGGGAGTGGCA
GAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGACGGAATCCCTGTGTGG
GTGATTCTGAGCGAGATCTTCTGAAAAAGGCCGACTAAGCTGCGGGCTTCTGAGGGTACCCTGTGGCCAGCCCT
GAAGCCACATTTCTGGGGGTGTCGTCACTGCCGTCCCGGAGGGCCAGATACGGCCCCGCCAAAGGGTTCTGC
CTGGCGTGGGCTTGGGCCGGCCTGGGGTCCGCCGTGGCCCGGAGGCCCTAGGAGCTGGTGTGCCCCCGCCCCG
CCGGCCCGCGGAGGAGGCAGGCGGCCCCCACTGTGCCTGAGGCCCGGAACCGTTCGCACCCGGCCTGCCCCAG
TCAGGCCGTTTTAGAAGAGCTTTTACTTGGGCGCCCGCGTCTCTGGCGCGAACACTGGAATGCATATACTACTT
TATGTGCTGTGTTTTTATTCTTGATACATTTGATTTTTTACGTAAGTCCACATATACTTCTATAAGAGCGTG
ACTTGTAAATAAAGGGTTAATGAAG

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FIGURE 1847

MRLRNGTFLTLLLFCLCAFLSLSWYAALSGQKGDVVDVYQREFLALRDR LHAAEQESLKRSKELNLVLDEIKRAV
SERQALRDGDGNRTWGRLTEDPRLKPWNGSHRHVLHLPTVFHHLPHLLAKESSLQPAVRVGQGR TGVSVMGIPS
VRREVHSYLTDTLHSLISELSPQEKEDSVIVVLIAETDSQYTSAVTENIKALFPT EIHSGLLEVISPSPHFYPDF
SRLRESFGDPKERVWRWKQNLDYCFLLMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFALQQPSEDWMILEFSQL
GFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKCNPEKDAKHCDRQKANLRIRFKPSL FQHVGTHSSL
AGKIQKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDDFFWAFTPAAGDFIRFRFFQPLRLERFF
FRSGNIEHPEDKLFNTSVEVLPFDNPDQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGVAEGEVDPAFGPLEAL
RLSIQTDSPVWVILSEIFLKKAD

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FIGURE 1848

TTTTCAGAGACTCGCCTGGCAGAGGCCTGGAGCGTCCTGCTGCGTGGACTGTGGGCACCGAGCCACCAGGAGGTT
GTTGATCTCATTCTTGGCTCACTGGTCCCTGCCAGACTGGTGGTGCCTCTCTACTGTCGGGCAGCCCCACCTCTGT
GCTGCCCCATCCACCTACAGCCCTCATGCCTGGGCCCAGCTGGAGGTTCTGACAGGGGGCCCCCTGGGGTGGCATG
CGGACCCCTTCAGGGTGCCCCAGGCGCAGCACAGGTCTCCAGAGACACAGGCACCAGGGCGTTTCAGAGCTAGTCCC
CTCGCTGCTGTTGACTGTCCTTGAGCAGCCCCAGGGCCGGTTTCTCAACCTCATTGCTCACCTGAGCAATGAAG
TGAGGTGGGCTCCTGGAAGTGCAGCAGCCACCCCCGGGGCCATCGTGAGGCTAAGAATCCAGTGCAGGGTGAAGC
AACCAGCGACCGCTACAAGGACAGTGAAGAGCTAGCACCAGGACCTTGGGTAGCCACCCGCTGGAGGGAGCGTG
TGCTGCAAAAAGCAAGAGTGGGCTTTGGAGGCCAACGGATGGAGCGGATTAGTCTGAGGCTGTTCCAGCCCTTG
CTTAGGATCCACCTACCTAGGTCTGGAAATCGTATTTCCACTTCAGATGCCTTCTCAGAGGATAAAATAACCCCC
GGTGGGGGAGAGTACTGGAAGAGGGCTAATTCCTGGTTTTCTCCCATGAGCATTAGTGTGAGTGAATTTTA
GAGTGACCCAGCTATGTCACGTGTGGCAGGCACAAGAACAGATGTCAATGAGCTATTGACAGAGGTGGACACCCA
GATGTGTGCGCTGGCACACTGGAGGGGGCCGTAGGGTGGCTCTAGACCGCCCCCTCGTGACGGCTTGCCACCAC
CTGCAGGCGACGTTGTGGACGTTTACCAGCGGGAGTTCTGGCGCTGCGCGATCGGTTGCACGCAGCTGAGCAGG
AGAGCCTCAAGCGCTCCAAGGAGCTCAACCTGGTGTGACGAGATCAAGAGGGCCGTGTGAGAAAGGCAGGCGC
TGCGAGACGGGAGACGGCAATCGCACCTGGGGCCGCCAACAGAGGACCCCGATTGAAGCCGTGGAACGGCTCAC
ACCGGCACGTGCTGCACCTGCCACCGTCTTCCATCACCTGCCACACCTGCTGGCCAAGGAGAGCAGTCTGCAGC
CCGCGGTGCGCGTGGGGCCAGGGCCGCACCGGAGTGTGGTGGTATGGGCATCCCGAGCGTGCGGCGCAGGTTGC
ACTCGTACCTGACTGACACTCTGCACTCGCTCATCTCCGAGCTGAGCCCGCAGGAGAAGGAGGACTCGGTATCG
TGGTGTGATCGCCGAGACTGACTCACAGTACACTTCGGCAGTGACAGAGAATCAAGGCCTTGTTCCCCACGG
AGATCCATTCTGGGCTCCTGGAGGTCTCTACCCCTCCCCCACTTCTACCCCTGACTTCTCCCGCTCCGAGAGT
CCTTTGGGGACCCCAAGGAGAGAGTCAGGTGGAGGACCAACAGAACCTCGATTACTGCTTCCTCATGATGTACG
CGCAGTCCAAAGGCATCTACTACGTGCAGCTGGAGGATGACATCGTGCCAAAGCCCACTACCTGAGCACCATGA
AGAAGTTTGCAGTGCAGCAGCCTTCAGAGGACTGGATGATCTGGAGTTCTCCAGCTGGGCTTCATTGGTAAGA
TGTTCAAGTCGCTGGACCTGAGCCTGATTGTAGAGTTTATTCTCATGTTCTACCGGACAAGCCCATGACTGGC
TCCTGGACCATATTCTGTGGGTGAAAGTCTGCAACCCCGAGAAGGATGCGAAGCACTGTGACCGGCAGAAAGCCA
ACCTGCGGATCCGCTTCAAACCGTCCCTCTTCCAGCACGTGGGCACTCACTCCTCGCTGGCTGGCAAGATCCAGA
AACTGAAGGACAAAGACTTTGGAAAGCAGGCGCTGCGGAAGGAGCATGTGAACCCGCCAGCAGAGGTGAGCACGA
GCCTGAAGACATAACGACTTCACCCCTGGAGAAAGCCTACCTGCGCGAGGACTTCTTCTGGGCCTTACCCCTG
CCGCGGGGACTTCATCCGCTTCCGCTTCTTCCAACCTCTAAGACTGGAGCGGTTCTTCTCCGAGTGGGAACA
TCGAGCACCCGGAGGACAAGCTCTTCAACACGTCTGTGGAGGTGCTGCCCTTCGACAACCCCTCAGTCAGACAAGG
AGGCCCTGCAGGAGGGCCGCACCGCCACCCCTCCGGTACCCTCGGAGCCCGACGGCTACCTCCAGATCGGCTCCT
TCTACAAGGGAGTGGCAGAGGGAGAGGTGGACCCAGCCTTCGGCCCTCTGGAAGCACTGCGCCTCTCGATCCAGA
CGGACTCCCTGTGTGGGTGATTCTGAGCGAGATCTTCTGAAAAAGGCCGACTAAGCTGCGGGCTTCTGAGGGT
ACCTGTGGCCAGCCCTGAAGCCACATTTCTGGGGGTGTGCTCACTGCCGTCCCGGAGGGCCAGATACGGCCC
CGCCCAAAGGTTCTGCCTGGCGTCGGGCTTGGGCCGGCTGGGGTCCGCGCTGGCCCGGAGGCCCTAGGAGCT
GGTGTGCCCCCGCCCGCGGGCCGGAGGAGGCGGCCGCCACACTGTGCCTGAGGCCCGGAACCGTTGCG
CACCCGGCCTGCCCCAGTCAGGCCGTTTTAGAAAGAGCTTTTACTTGGGCGCCCGCGTCTTGGCGCGAACACTG
GAATGCATATACTACTTTATGTGCTGTGTTTTTATTCTTGGATACATTTGATTTTTTACGTAAGTCCACATAT
ACTTCTATAAGAGCGTGACTTGTAATAAAGGGTTAATGAAG

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FIGURE 1849

MSRVAGTRTDVNELLQRWTPRCVRWHTGGARRVALDRPLVTACLPPAGDVVDVYQREFLALRDLHAAEQESLKR
SKELNLVLDEIKRAVSEKQALRDGDGNRTWGRLTEDPRLKPWNGSHRHVLHLP TVFHHLPHLLAKESSLQPAVRV
GQGR TGVSVMGIPSVRREVHSYLTD TLHSLISELSPQEKEDSVIVVLIAETDSQYTSAVTENIKALFPTIHS
LLEVISPSPHFYPDFSRLRESFGDPKERVWRWKQNLDYCFMMYAQSKGIYYVQLEDDIVAKPNYLSTMKNFAL
QQPSEDWMILEFSQLGFIGKMFKSLDLSLIVEFILMFYRDKPIDWLLDHILWVKVCNPEKDAKHCDRQKANLRIR
FKPSLFQHVGTSSLAGKIQKLKDKDFGKQALRKEHVNPPAEVSTSLKTYQHFTLEKAYLREDDFFWAFTPAAGDF
IRFRFFQPLRLERFFFRSGNIEHPEDKLFNTSVEVLPFDNPQSDKEALQEGRTATLRYPRSPDGYLQIGSFYKGV
AEGEVDPAFGPLEALRLSIQTDSPVWVILSEIFLKKAD

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FIGURE 1850

TTTTTTTTTTCGTCTTAGCCACGCAGAAGTCGCGTGTCTAGTTTGTTCGACGCCGGACCGCGTAAGAGACGATG

ATGTTGGGCACGGAAGGTGGAGAGGGATTTCGTGGTGAAGGTCCGGGGCTTGCCCTGGTCTTGCTCGGCCGATGAA
GTGCAGAGGTTTTTTTTCTGACTGCAAAATTCAAAATGGGGCTCAAGGTATTTCGTTTCATCTACACCAGAGAAGGC
AGACCAAGTGGCGAGGCTTTTGTGAACTTGAATCAGAAGATGAAGTCAAATTGGCCCTGAAAAAGACAGAGAA
ACTATGGGACACAGATATGTTGAAGTATTCAGTCAAACAACGTTGAAATGGATTGGGTGTTGAAGCATACTGGT
CCAAATAGTCCTGACACGGCCAATGATGGCTTTGTACGGCTTAGAGGACTTCCCTTTGGATGTAGCAAGGAAGAA
ATTGTTCAGTTCTTCTCAGGGTTGGAATCGTGCCAAATGGGATAACATTGCCGGTGGACTTCCAGGGGAGGAGT
ACGGGGGAGGCCTTCGTGCAGTTTGCTTCACAGGAAATAGCTGAAAAGGCTCTAAAGAAACACAAGGAAAGAATA
GGGCACAGGTATATTGAAATCTTTAAGAGCAGTAGAGCTGAAGTTAGAACTCATTATGATCCACCACGAAAGCTT
ATGGCCATGCAGCGGCCAGGTCCCTTATGACAGACCTGGGGCTGGTAGAGGGTATAACAGCATTGGCAGAGGAGCT
GGCTTTGAGAGGATGAGGCGTGGTGCTTATGGTGGAGGCTATGGAGGCTATGATGATTACAATGGCTATAATGAT
GGCTATGGATTGGGTGAGATAGATTGGAAGAGACCTCAATTACTGTTTTTCAGGAATGTCTGATCACAGATAC
GGGGATGGTGGCTCTACTTTCCAGAGCACAAACAGGACACTGTGTACACATGCGGGGATTACCTTACAGAGCTACT
GAGAATGACATTTATAATTTTTTTTACCCTCAACCCTGTGAGAGTACACATTGAAATTGGTCTGATGGCAGA
GTAAGTGGTGAAGCAGATGTCGAGTTGCAACTCATGAAGATGCTGTGGCAGCTATGTCAAAGACAAAGCAAAT
ATGCAACACAGATATGTAGAACTCTTCTTGAATTCTACAGCAGGAGCAAGCGGTGGTGCTTACGAACACAGATAT
GTAGAACTCTTCTTGAATTCTACAGCAGGAGCAAGCGGTGGTGCTTATGGTAGCCAAATGATGGGAGGCATGGGC
TTGTCAAACCACTCCAGCTACGGGGGGCCAGCCAGCCAGCAGCTGAGTGGGGGTTACGGAGGCGGCTACGGTGGC
CAGAGCAGCATGAGTGGATACGACCAAGTTTTACAGGAAAACCTCCAGTGATTTTCAATCAAACATTGCATAGGTA
ACCAAGGAGCAGTGAACAGCAGCTACTACAGTAGTGGAAGCCGTGCATCTATGGGCGTGAACGGAATGGGAGGGT
TGTCTAGCATGTCCAGTATGAGTGGTGGATGGGGAATGTAATTGATCGATCCTGATCACTGACTCTTGGTCAACC
TTTTTTTTTTTTTTTTCTTTAAGAAAACCTCAGTTTAAACAGTTTCTGCAATACAAGCTTGTGATTATGCTT
ACTCTAAGTGGAAATCAGGATTGTTATGAAGACTTAAGGCCAGTATTTTGAATACAATACTCATCTAGGATGT
AACAGTGAAGCTGAGTAACTATACTGTTAACTTAAGTTCCAGCTTTTCTCAAGTAGTTATAGGATGTACTT
AAGCAGTAAGCGTATTTAGGTAAAAGCAGTTGAATTATGTTAAATGTTGCCCTTTGCCACGTTAAATTGAACACT
GTTTTGGATGCATGTTGAAAGACATGCTTTTATTTTTTTGTAAAACAATATAGGAGCTGTGTCTACTATTAAAA
GTGAAACATTTTGGCATGTTTGTAAATTCTAGTTTCAITTAATAACCTGTAAGGCACGTAAGTTTAAGCTTTTTT
TTTTTTTAAGTTAATGGGAAAAATTTGAGACGCAATACCAATACTTAGGATTTTGGTCTTGGTGTGTTGATGAAA
TTCTGAGGCCTTGATTTAAATCTTTCATTGTATTGTGATTTTCTTTTAGGATATTGCGCTAAGTGAACTTGTC
AAATAAATCCTCCTTTTAAAAACTGC

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FIGURE 1851

MMLGTEGGEGFVVKVRLPWSCSADEVQRFFSDCKIQNGAQGIRFIYTREGRPSGEAFVELESEDEVKLALKKDR
ETMGHRYVEVFKSNNVEMDWVLKHTGPNSPDTANDGFVRLRGLPFGCSKEEIVQFFSGLIIVPNGITLPVDFQGR
STGEAFVQFASQEI AEKALKKKHKERIGHRYIEIFKSSRAEVRTHYDPPRKLMAMQRP GPYDRPGAGRGYNSIGRG
AGFERMRRGAYGGGYGGYDDYNGYNDGYGFGSDRFG RD LNYCFSGMSDHRYGDGGSTFQSTTGHCVHMRGLPYRA
TENDIYNFFSPLNPVRVHIEIGPDGRVTGEADVEFATHEDAVAAMSKDKANMQHRYVELFLNSTAGASGGAYEHR
YVELFLNSTAGASGGAYGSQMMGGMGLSNQSSYGGPASQQLSGGYGGGYGGQSSMSGYDQVLQENS SDFQSNIA

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FIGURE 1852

CTGCAAGGCGGCGGCAGGAGAGGTTGTGGTGCTAGTTTCTCTAAGCCATCCAGTGCCATCCTCGTCGCTGCAGCG
ACACCGCTCTCGCCGCCGCCATGACTGAGCAGATGACCCTTCGTGGCACCCCTCAAGGGCCACAACGGCTGGGTAA
CCCAGATCGCTACTACCCCGCAGTTCCCGGACATGATCCTCTCCGCCTCTCGAGATAAGACCATCATCATGTGGA
AACTGACCAGGGATGAGACCAACTATGGAATTCCACAGCGTGCTCTGCGGGGTCACTCCCACCTTTGTTAGTGATG
TGGTTATCTCCTCAGATGGCCAGTTTGCCCTCTCAGGCTCCTGGGATGGAACCCTGCGCCTCTGGGATCTCACAA
CGGGCACCACCACGAGGCGATTTGTGGGCCATACCAAGGATGTGCTGAGTGTGGCCTTCTCCTCTGACAACCGGC
AGATTGTCTCTGGATCTCGAGATAAAACCATCAAGCTATGGAATACCCTGGGTGTGTGCAAATACACTGTCCAGG
ATGAGAGCCACTCAGAGTGGGTGTCTTGTGTCCGCTTCTCGCCCAACAGCAGCAACCCTATCATCGTCTCCTGTG
GCTGGGACAAGCTGGTCAAGGTATGGAACCTGGCTAACTGCAAGCTGAAGACCAACCACATTGGCCACACAGGCT
ATCTGAACACGGTGACTGTCTCTCCAGATGGATCCCTCTGTGCTTCTGGAGGCAAGGATGGCCAGGCCATGTTAT
GGGATCTCAACGAAGGCAAACACCTTTACACGCTAGATGGTGGGGACATCATCAACGCCCTGTGCTTCAGCCCTA
ACCGCTACTGGCTGTGTGCTGCCACAGGCCCCAGCATCAAGATCTGGGATTTAGAGGGAAAGATCATTGTAGATG
AACTGAAGCAAGAAGTTATCAGTACCAGCAGCAAGGCAGAACCACCCAGTGCACTTCCCTGGCCTGGTCTGCTG
ATGGCCAGACTCTGTTTGCTGGCTACACGGACAACCTGGTGCGAGTGTGGCAGGTGACCATTGGCACACGCTAGA
AGTTTATGGCAGAGCTTTACAAATA

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FIGURE 1853

MTEQMTLRGTLKGHNGWVTQIATTPQFPDMILSASRDKTIIMWKLTRDETNYGIPQALRGHSHFVSDVVISSDG
QFALSGSWDGTLRLWDLTTGTTTTRRFVGH TKDVL SVA FSSDN RQIVSGSRDKTIKLWNTLGVC KYTVQDESHSEW
VSCVRFSPNSSNPIIVSCGWDKLVKVWNL ANCKL KTNHIGHTGYLNTVTVSPDGSLCASGGKDGQAMLWDLNEGK
HLYTLDGGDIINALCFSPNRYWLCAATGPSIKIWDLEGKIIVDELKQEVISTSSKAEPPOCTSLAWSADGQTLFA
GYTDNLVRVWQVTIGTR

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FIGURE 1854

GCGGAGCCCACGGAGCCCACGGAGGAGCCCACGGAGGAGCCCCAGCGTCCGAACGGGCAGACCCCTCGAGCCGC
GAAGGAGCCCCGAGAAGCAGCCACGATGTGCGGAATCTTTGCTTACATGAACACAGAGTCCCCCGGACGAGGAAG
GAGATCTTCGAAACCCTCATCAAGGGCCTGCAGCGGCTGGAGTACAGAGGCTACGACTCGGCAGGTGTGGCGATC
GATGGGAAATAATCACGAAGTCAAAGAAAGACACATTTCAGCTGCTCAAGAAAAGGGGGAAAGTCAAGGCTCTCGAT
GAAGAACTTTACAAACAAGACAGCATGGACTTAAAAGTGGAGTTTGAGACACACTTCGGCATTGCCACACGCGC
TGGGCCACCCACGGGGTCCCCAGTGCTGTCAACAGCCACCCTCAGCGCTCAGACAAAGGCAACGAATTTGTTGTC
ATCCACAATGGGATCATCACAATTACAAAGATCTGAGGAAATTTCTGGAAAGCAAAGGCTACGAGTTTGAGTCA
GAAACAGATACAGAGACCATCGCCAAGCTGATTAAATATGTGTTTCGACAACAGAGAACTGAGGACATTACGTTT
TCAACGTTGGTTCGAGAGAGTCATTTCAGCAGTTGGAAGGTGCATTTCGCGCTGGTTTTCAAGAGTGTCCACTACCCA
GGAGAAGCCGTTGCCACACGGAGAGGCAGCCCCCTGCTCATCGGAGTCCGGAGCAAATACAAGCTTCCACAGAA
CAGATCCCTATCTTATACAGGACGTGCACTCTGGAGAATGTGAAGAATATCTGTAAGACACGGATGAAGAGGCTG
GACAGCTCCGCTGCCTGCATGCTGTGGGCGACAAGGCCGTGGAATTCCTTTGCTTCTGATGCAAGCGCTATC
ATAGAGCACACCAACCGGGTTCATCTTCCTGGAGGACGATGACATCGCCGAGTGGCTGATGGGAACTCTCCATT
CACC GGTC AAGCGCTCGGCCAGTGATGACCCATCTCGAGCCATCCAGACCTTCAGATGGAAGTGCAGCAAATC
ATGAAAGGTAACCTTCAGTGCCTTTATGCAGAAGGAGATCTTCGAACAGCCAGAATCAGTTTTCAATACTATGAGA
GGTCGGGTGAATTTTGAACCAACACAGTGCTCCTGGGTGGCTTGAAGGACCACTTGAAGGAGATTTCGACGATGC
CGACGGCTCATCGTGATTGGCTGTGGAACCAGCTACCACGCTGCCGTGGCTACGCGGCAAGTTTTGGAGGAACTG
ACTGAGCTTCCTGTGATGGTTGAACTTGCTAGTGATTTTCTGGACAGGAACACACCTGTGTTTCAGGGATGACGTT
TGCTTTTTTCATCAGCCAGTCAGGCGAGACCGCGGACACCCTCCTGGCGCTGCGCTACTGTAAGGACCGCGGCGCT
CTCACCCTGGGCGTCACCAACACCGTGGGCAGCTCCATCTCTCGCGAGACCGACTGCGGCGTCCACATCAACGCA
GGGCCGGAGATCGGCGTGGCCAGCACCAAGGCTTATACCAGTCAGTTTCATCTCTCTGGTGATGTTTGGTTTGATG
ATGCTGAAGACCGAATTTCACTACAAAACAGGAGGCAAGAGATCATCCGTGGCTTGAGATCTTTACCTGAGCTG
ATCAAGGAAGTGCTGTCTCTGGAGGAGAAGATCCACGACTTGCGCCCTGGAGCTCTACACGCAGAGATCGCTGCTG
GTGATGGGGCGGGGCTACAACTATGCCACCTGCCTGGAAGGAGCCCTGAAAATTAAAGAGATAACCTACATGCAC
TCAGAAGGCATCCTGGCTGGGGAGCTGAAGCACGGGCCCCCTGGCACTGATTGACAAGCAGATGCCCGTCATCATG
GTCATTATGAAGGATCCTTGCTTCGCCAAATGCCAGAACGCCCTGCAGCAAGTCACGGCCCGCCAGGGTCGCCCC
ATTATACTGTGCTCCAAGGACGATACTGAAAGTTCCAAGTTTGGGTATAAGACAATTGAGCTGCCCCACACTGTG
GACTGCCTCCAGGGCATCCTGAGCGTGATTCCGCTGCAGCTGCTGTCCTTCCACCTGGCTGTTCTCCGAGGATAT
GACGTTGACTTCCCCAGAAATCTGGCCAAGTCTGTAACGTGGAATGAGGCTGAGACCGTGACAAGACCATCACC
ACCTTTCATCTGATTCCAGACCTGTCCCAACAGCAGGGATGCTACATGGGAAGAGAAGTGGACATCCCATGTT
CTGCGTGCTCCTGTAGAGCTTGACAGCTTCCACGTGCCTTCTACCCAAGTGCTTTTGCTTACAGCAGATACTGTT
TCTCTGTGCTCTGAAGTCGCCAGAGGAGAAGGGAATCATTGTTTACACATGGGGATCAGAGCAGACTTCTCCACT
ACTGTGCAATAGAGATACAGCTCTCTTCAGAGTAACTGTGAACCTTTTATAACCAACACTAGAGTTAGTTTTAAA
AGACAAGATATTTATAATGACGACTGTATAGCTTTTAAGTTATTTTCTAGTATGTGGCTTTCTGTAGCCGTGGT
AACGGCCAAACTGTTTCATCCTAGCTACCCATGCTCTGTGTCAGGCTTGCTCCTGGCAGGTGGCATTCTCTCAG
ATGTGAGCACAAAGCATTGGCCCTCTGGACTCCTTTCTCCTTTCTTTCTCTTAGGCTGCTCCTGAATCCTGT
TCTCTGACATCCGTGGAGCCCCCTCTGCATCCACCTATGCCCTCCTATAAGTCCAGTTGAAATCTCAGCCTCCTTC
AACATTTTCTTCTCGTGTGTGGCCACATCCCTCCACTTCTCCAACCTCTGTTTAACTCTGATCAGGCTCTTTTT
AAGCCCTGGCAGCATTTTGGTCCCTGCTCCTTGCCCATAGTAAACAGCTTGAAATATCCCATGCAAGAGAGTAG
TTTCAAGTGGGCGACTCTGCTCTCTATTTAAAAGCGTGACAATCAAAGTACTATGCAATTTTAGGACAATAAA
GAACATACAGTTCC

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FIGURE 1855

MCGIFAYMNYRVPRTKEIFETLIKGLQRLYRGYDSAGVAIDGNNHEVKERHIQLVKKRGKV KALDEELYKQDS
MDLKVEFETHFGIAHTRWATHGVPSAVNSHPQRS DKGNEFVVIHNGIITNYKDLRKFLSKGYEFES ETD TETIA
KLIKVFVDNRETEDITFSTLVERVIQQLEGA FALVFKSVHYPGEAVATRRGSPLLIGVRSKYKLSTEQIPILYRT
CTLENVKNICKTRMKRLDSSACLHAVGDKAVEFFFASDASAIIEHTNRVIFLEDDDIAAVADGKLSIHRVKRSAS
DDPSRAIQTLQMELOQIMKGNFSAFMQKEIFEQ PESVFNIMRGRVNFETNTVLLGGLKDHLKEIRRCRRLIVIGC
GTSYHAAVATRQVLEELTELPVMVELASDFLD RNTPVFRDDVCFEISQSGETADTLLALRYCKDRGALT VGVNT
VGSSISRETD CGVHINAGPEIGVASTKAYTSQFISLVMFGLMMSEDRISLQNRQEIIRGLRSLPELIKEVLSLE
EKIHDLALELYTQSRLLVMGRGYNYATC LEGALKIKEITYMHSEGILAGELKHGPLALIDKQMPVIMVIMKDPCF
AKCQNALQQVTARQGRPIILCSKDDTESSKFAYKTIELPHTVDCLOGILSVIPLQLLSFHLAVLRGYDVDFPRNL
AKSVTVE

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FIGURE 1856

ATGGAGAACCGAGGAAGAGAAACAGGTTTTGTGGAAGACAAGCACAAAGTCCACGCCTAGGTGTATGGGAAGTGAG
GTCCTCATGGGGCATAGCTACAGAGATCCCTTTTTTGGAGGGATGACTCGAGATGAAGATGATGATGAGGAAGAA
GAGGAAGAAGGGGGCTCATGGGGCTGTGGGAACCCAAGCTTCAGCCCAGGAGGAGGGATACGTTTCCACGATAAC
TTCGGCTTTGATGACCTAGTACAAGATTTCAATAGCATCTTCAGCAATATGGGGGCCTGGACCTTGCCTTCCCAT
CCTCCTGAAC TTCCAGGTTCTGAGTCAGAGACACCTGGTGAGAGACTGCGGGAGGGACAGGCACTTCGAGAATCA
ATGCTTAAGTATCCAGATAGTCACCAGCCCAGGATCTTTGAGGGGGTCTTGAGAGTGATGCAAGAAGAGCGTCT
TGGCCCGGTTCTACAGCCCCAGCCCAGATCTACTTCAAGAGCATCTCTGTGACCAAAATCACTAAGCCAGATGGG
ATAGTGGAGGAGCGCTGGACTGTGGTGGACACCCTGGATGATGCCTTCTCCATCCTGGACTTATTCCTAGGATGC
TGGTTCCGGTCCCGGTAG

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FIGURE 1857

ATGGCCCCACAGTGTGGAGAGTGGACGGACAGACAGAAGCAGTGTGTGCAGCCTTGCCTCTCATCAGAGTCACT
GGGAGCAGGATTTCTTTGACCTCGCTGAGTACACTGCGGACGTTGACGGAGTTGGCACTCTACGACTTCTAGAT
GCAGTTAAGACTTGTGGCCTTATCAACTCIGTGAAGTTCTACCAAGCCTCAACAAGTGAACTTTATGGGAAAGTG
CAGGAAATACCCAGAGAGACACCCCTTCTATCCCGGTCACCCTATGGTGAGAACATGCGTGCACACCGG
AGCACATGTGTGGCGTTATCTGTGGGTGTGGGGGGGCAGCAAACTCTATGCCTATTGGATTGTGGTGAAC TTC
CGTGAGGCGTATAATCTCTTGCAGTGAACGGCATTCTCTTCAATCATGAGAGTCCCAGAGAGGAGATCAGTTG
AAGATTTCCGTCTTTTCGATGA

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FIGURE 1858

CTGATGGCATCTTCTAAGCTGAAATGAATGAGTTTCTTACTCAGGAGCTGGCTGAAGATGGCTACTCTGGAGITG
AGATGCGAGTTACACCAACCAGGACAGAAATCATTGTCCTTAGCCACCAGAACACAGAATGTTCTTGGTGAGAAGG
GCCGGCGGATTTCGGGAACTGACTGCTGTAGTTCAGAAGAGGTTTGGCTCTCCAGGCAGAGTCTCTGCCTTACAAA
CTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGCTATGGTGTGTGCGGGTTCATCATGGAACTGGGGCCAAAGGC
TGTGAGGTCGTGGTGTCTGGGAACTCTGAGGACAGAGAGCTAAATCCATGAAGTTTGTGGA

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FIGURE 1859A

CCGACCAACACCAACACCCAGCTCCGACGCAGCTCCTCTGCGCCCTTGCCGCCCTCCGAGCCACAGCTTTCTCTCC
CGCTCCTGCCCCCGGCCCGCTCGCCGCTCTCCGCGCTCGCAGCGGCCCTCGGGAGGGCCCCAGGTAGCGAGCAGCGACC
TCGCGAGCCCTTCCGCACTCCCGCCCGGTTCCCGGCCGTCCGCTATCCTTGCCCCCTCCGCTTTCTCCGCGCC
GGCCCGCCTCGCTTATGCCTCGGCGCTGAGCCGCTCTCCGATTGCCCCCGACATGAGCTGCAACGGAGGCTCC
CACCCGCGGATCAACACTCTGGGCGCATGATCCGCGCGAGTCTGGCCCGGACCTGCGCTACGAGGTGACCAGC
GGCGGGGGGGCACCAGCAGGATGTACTATTCTCGGCGCGCGTGATCACCAGCAGAACTCGGACGGCTACTGT
CAAACCGGCACGATGTCCAGGCACCAGAACAGAACCATCCAGGAGCTGCTGCAGAACTGCTCCGACTGCTTG
ATGCGAGCAGAGCTCATCGTGACGCTGAATTGAAGTATGGAGATGGAATACAACCTGACTCGGAGTCGAGAATTG
GATGAGTGTGTTTGCCAGGCCAATGACCAATGGAATCCTCGACAGCTTGATCAGAGAGATGCGGCAGATGGGC
CAGCCCTGTGATGCTTACCAGAAAAGGCTTCTTCAGCTCCAAGAGCAAATGCGAGCCCTTTATAAAGCCATCAGT
GTCCCTCGAGTCCGCGAGGCCAGCTCCAAGGGTGGTGGAGGCTACACTTGTGAGATGGCTCTGGCTGGGATGAG
TTCACCAACATGTACCACTGAATGTTTGGGTGGATGAGGCAGCAAAGGGCGGAGATGGACATGTTGGCCTGG
GGTGTGGACCTGGCCTCAGTGGAGCAGCACATTAACAGCCACCGGGGCATCCACAACCTCCATCGGCGACTATCGC
TGGCAGCTGGACAAAATCAAAGCCGACCTGCGCGAGAAATCTGCGATCTACCAGTTGGAGGAGGATGAAAAAC
CTGCTGAAAGCGTCTTTGAGAGGATGGATCACCTGCGACAGCTGCAGAACATCATTAGGCCACGTCCAGGGAG
ATCATGTGGATCAATGACTGCGAGGAGGAGGAGCTGCTGTACGACTGGAGCGACAAGAACACCAACATCGCTCAG
AAACAGGAGGCCCTTCTCCATACGCATGAGTCAACTGGAAGTTAAAGAAAAAGAGCTCAATAAGCTGAAACAAGAA
AGTGACCAACTTGTCTCAATCAGCATCCAGCTTCAGACAAAATTGAGGCCCTATATGGACACTCTGCAGACGCGAG
TGGAGTTGGATTCTTCAGATCACCAGTGCATTGATGTTTCTGCTGAAAAAAATGCTGCCTACTTTTCACTTTTTTG
AAGAGGCGCAGTCTACTGAAGCATACCTGAAGGGGCTCCAGGACTCCATCAGGAAGAAGTACCCCTGCGACAAGA
ACATGCCCTGACGACCTGCTGGAACAGATCAAGGAGCTGGAGAAAGAACGAGAGAAAAATCCTTGAATACAAGC
GTCAGGTGCAGAACTTGGTAAACAAGTCTAAGAAGATTGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGCA
ATAAACCATTATTCTCAGAGCTCTCTGTGACTACAACAAGATCAGAAAATCGTGATAAGGGGGATGAGTGT
TCCTGAAGGACAACAACGAGCGCAGCAAGTGGTACGTGACGGGCCCGGGAGGCGTTGACATGCTTGTTCCTCTG
TGGGGCTGATCATCCCTCCTCCGAACCCACTGGCCGTGGACCTCTCTTGCAAGATTGAGCAGTACTACGAAGCCA
TCTTGGCTCTGTGGAACAGCTCTACATCAACATGAAGAGCCTGGTGTCTTGGCACTACTGCATGATTGACATAG
AGAAGATCAGGGCCATGACAATCGCCAAGCTGAAAACAAATGCGGCAGGAAGATTACATGAAGACGATAGCCGACC
TTGAGTTACATTACCAAGAGTTTATCAGAAATAGCCAGGCTCAGAGATGTTTGGAGATGATGACAAGCGGAAAA
TACAGTCTCAGTTACCGATGCCCAGAACGATTACCAAGCCCTGGTCACTCAGCTCCCTGGCTATCCCCAGCACC
AGACAGTGACCACAACTGAAATCACTCATCATGGAACCTGCCAAGATGTCAACCATAATAAGTAATTGAAACCA
ACAGAGAAAATGACAAGCAAGAAACATGGATGCTGATGGAGCTGCAGAAAGATTGCGAGGCAGATAGAGCACTGCG
AGGGCAGGATGACTCTCAAAAACCTCCCTCTAGCAGACCAGGGATCTTCTCACCACATCAGTGAAAATTAACG
AGCTTAAGAGTGTGCAGAAATGATTACAAGCAATTGCTGAGGTTCTCAACCAGCTTAAAGATATGCTTGCCAACT
TCAGAGGTTCTGAAAAGTACTGCTATTTACAGAATGAAGTATTTGGACTATTTCAAGAACTGGAAAATATCAATG
GTGTTACAGATGGCTACTTAAATAGCTTATGCACAGTAAGGGCACTGCTCCAGGCTATTCTCAAACAGAAGACA
TGTTAAAGGTTTATGAAGCCAGGCTCACTGAGGAGGAACTGTCTGCCTGGACCTGGATAAAGTGAAGCTTACC
GCTGTGGACTGAAGAAAAATAAAAAATGACTTGAACCTGAAGAAGTCGTTGTTGGCCACTATGAAGACAGAACTAC
AGAAAGCCAGCAGATCCACTCTCAGACTTCACAGCAGTATCCACTTTATGATCTGGACTTGGGCAAGTTCCGTG
AAAAAGTCACACAGCTGACAGACCGCTGGCAAAGGATAGATAAACAGATCGACTTTAGGTTATGGGACCTGGAGA
AACAAATCAAGCAATTGAGGAATTATCGTGATAACTATCAGGCTTTCTGCAAGTGGCTCTATGATGCTAAACGCC
GCCAGGATTCCTTAGAATCCATGAAATTTGGAGATTCCAACACAGTCATGCGGTTTTTGAATGAGCAGAAGAACT
TGCACAGTGAAATATCTGGCAAACGAGACAAATCAGAGGAAGTACAAAAAATTGCTGAACCTTGGCCCAATTCAA
TTAAGGATTATGAGCTCCAGCTGGCCTCATACCTCAGGACTGGAACTCTGCTGAACATACCTATCAAGAGGA
CCATGATTAGTCCCCTTCTGGGGTGATTCTGCAAGAGGCTGCAGATGTTTATGCTCGGTACATTGAACCTACTTA
CAAGATCTGGAGACTATTACAGGTTCTTAAGTGAGATGCTGAAGAGTTTGAAGATCTGAAGCTGAAAAATACCA
AGATCGAAGTTTTGGAAGAGGAGCTCAGACTGGCCCGAGATGCCAACTCGGAAAACCTGTAATAAGAACAAATTC
TGGATCAGAACCTGCAGAAATACCAGGCAGAGTGTCCAGTTCAAAGCGAAGCTTGGAGCCTGGAGGAGCTGA
AGAGACAGGCTGAGCTGGATGGGAAGTCGGCTAAGCAAAATCTAGACAAGTGCTACGGCCAAATAAAGAAGCTCA

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FIGURE 1859B

ATGAGAAGATCACCCGACTGACTTATGAGATTGAAGATGAAAAGAGAAGAAGAAAATCTGTGGAAGACAGATTTG
ACCAACAGAAGAATGACTATGACCAACTGCAGAAAGCAAGGCAATGTGAAAAGGAGAACCTTGTTGGCAGAAAT
TAGAGTCTGAGAAAGCCATCAAGGAGAAGGAGTACGAGATTGAAAGGTTGAGGGTTCTACTGCAGGAAGAAGGCA
CCCGGAAGAGAGAATATGAAAATGAGCTGGCAAAGGTAAGAAACCACTATAATGAGGAGATGAGTAATTTAAGGA
ACAAGTATGAAACAGAGATTAACATTACGAAGACCACCATCAAGGAGATATCCATGCAAAAAGAGGATGATTCCA
AAAATCTTAGAAACAGCTTGATAGACTTTCAAGGGAAAATCGAGATCTGAAGGATGAAATTGTCAGGCTCAATG
ACAGCATCTTGAGGCCACTGAGCAGCGAAGGCGAGCTGAAGAAAACGCCCTTCAGCAAAAGGCCCTGTGGCTCTG
AGATAATGCAGAAGAAGCAGCATCTGGAGATAGAACTGAAGCAGGTCATGCAGCAGCGCTCTGAGGACAATGCC
GGCACAAGCAGTCCCTGGAGGAGGCTGCCAAGACCATTGAGGACAAAATAAGGAGATCGAGAGACTCAAAGCTG
AGTTTCAGGAGGAGGCCAAGCGCCGCTGGGAATATGAAAATGAACTGAGTAAGGTAAGAAACAATTATGATGAGG
AGATCATTAGCTTAAAAATCAGTTTGAGACCGAGATCAACATCACCAAGACCACCATCCACCAGCTCACCATGC
AGAAGGAAGAGGATACAGTGGCTACCGGGCTCAGATAGACAATCTCACCCGAGAAAACAGGAGCTTATCTGAAG
AAATAAAGAGGCTGAAGAACACTCTAACCAGACCACAGAGAATCTCAGGAGGTTGGAAGAAGACATCCAACAGC
AAAAGGCCACTGGCTCTGAGGTGTCTCAGAGGAACAGCAGCTGGAGGTTGAGCTGAGACAAGTCACTCAGATGC
GAACAGAGGAGAGCGTAAGATATAAGCAATCTCTTGATGATGCTGCCAAAACCATCCAGGATAAAAACAAGGAGA
TAGAAAGGTTAAACAACCTGATCGACAAAGAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTAC
AAAGGTTCCAGTATGACCTGCAGAAAGCAAACAGTAGTGCGACGGAGACAATAAACAACTGAAGGTTCCAGGAGC
AAGAAGTGACACGCTGAGGATCGACTATGAAAGGTTTCCAGGAGAGGACTGTGAAGGACCAGATATCACGC
GGTTCAGAACTCTCTGAAAGAGCTGCAGCTGCAGAAGCAGAAGGTGGAAGAGGAGCTGAATCGGCTGAAGAGGA
CCGCGTCAGAAGACTCCTGCAAGAGGAAGAAGCTGGAGGAAGAGCTGGAAGGCATGAGGAGGTCGCTGAAGGAGC
AAGCCATCAAATCACCAACCTGACCAGCAGCTGGAGCAGGCATCCATTGTTAAGAAGAGGAGTGAGGATGACC
TCCGGCAGCAGAGGGACGTGCTGGATGGCCACCTGAGGGAAAAGCAGAGGACCCAGGAAGAGCTGAGGAGGCTCT
CTTCTGAGGTCGAGGCCCTGAGGCGGCAGTTACTCCAGGAACAGGAAAGTGTCAAACAAGCTCACTTGAGGAATG
AGCATTTCCAGAAGGCGATAGAAGATAAAAGCAGAAGCTTAAATGAAAGCAAAATAGAAATTGAGAGGCTGCAGT
CTCTCACAGAGAACCTGACCAAGGAGCACTTGATGTTAGAAGAAGAAGTGCAGGAACCTGAGGCTGAGGTACGATG
ACCTGAGGAGAGGACGAAGCGAAGCGGACAGTGATAAAATGCAACCATCTTGGAACCTAAGGAGCCAGCTGCAGA
TCAGCAACAACCGGACCCTGGAAGTGCAGGGGCTGATTAATGATTTACAGAGAGAGAGGGAATTTGAGACAGG
AAATTGAGAAATTCAAAAGCAGGCTTTAGAGGCATCTAATAGGATTTCAGGAATCAAAGAATCAGTGTACTCAGG
TGGTACAGGAAGAGAGAGCCTTCTGGTGAAAAATCAAAGTCTGAGGCAAGACAAGGCAAGGCTGCAGAGGCTGG
AGGATGAGCTGAATCGTCAAAATCAACTCTAGAGGCAGAAACCAGGGTGAAACAGCGCCTGGAGTGTGAGAAAC
AGCAAAATTCAGAAATGACCTGAATCAGTGAAGAGCTCAATATTCGCGCAAGGAGGAGGCTATTAGGAAGATAGAAT
CGGAAAGAGAAAAGAGTGAGAGAGAGAAGAACAGTCTTAGGAGTGAGATCGAAAAGACTCCAAGCAGAGATCAAGA
GAATTGAAGAGAGGTGCAGGCGTAAGCTGGAGGATTCTACCAGGGAGACACAGTCAAGTTAGAAACAGAACGCT
CCCGATATCAGAGGGAGATTGATAAACTCAGACAGCGCCATATGGGTCCCATCGAGAGACCCAGACTGAGTGTG
AGTGGACCGTTGACACCTCCAAGCTGGTGTGTTGATGGGCTGAGGAAGAAGGTGACAGCAATGCAGCTCTATGAGT
GTCAGCTGATCGACAAAACAACCTTGACAAAATATTGAAGGGGAAGAAGTCAGTGAAGAAGTTGCTTCTGAAA
TCCAGCCATTCTTCGGGGTGCAGGATCTATCGCTGGAGCATCTGCTTCTCCTAAGGAAAAATACTCTTTGGTAG
AGGCCAAGAGAAAGAAATTAATCAGCCCAGAAATCCACAGTCATGCTTCTGGAGGCCAGGCAGCTACAGGTGGTA
TAATTGATCCCCATCGGAATGAGAAGCTGACTGTGACAGTGCCATAGCTCGGGACCTCATTGACTTCGATGACC
GTCAGCAGATATATGCAGCAGAAAAAGCTATCACTGGTTTTGATGATCCATTTTCAGGCAAGACAGTATCTGTTT
CAGAAGCCATCAAGAAAAATTTGATTGATAGAGAAACCGGAATGCGCCTGCTGGAAGCCCAGATTGCTTCAGGGG
GTGTAGTAGACCCTGTGAACAGTGTCTTTTTGCCAAAAGATGTCGCTTGGCCCGGGGGCTGATTGATAGAGATT
TGTATCGATCCCTGAATGATCCCCGAGATAGTCAGAAAACTTTGTGGATCCAGTCACCAAAAAGAAGGTGAGTT
ACGTGCAGCTGAAGGAACGGTGCAGAATCGAACCACATACTGGTCTGCTCTTGCTTTCAGTACAGAAGAGAAGCA
TGTCTTCCAAGGAATCAGACAACCTGTGACCGTCACTGAGCTAGTAGATTCTGGTATATTGAGACCGTCCACTG
TCAATGAACTGGAATCTGGTCAGATTTCTTATGACGAGGTTGGTGAGAGAATTAAGGACTTCTCCAGGGTTCAA
GCTGCTAGCAGGCATATACAATGAGACCACAAAACAGAAGCTTGGCATTATGAGGCCATGAAAATTGGCTTAG
TCCGACCTGGTACTGCTCTGAGTTGCTGGAAGCCCAAGCAGCTACTGGCTTTATAGTGGATCCTGTTAGCAACT

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FIGURE 1859C

TGAGGTTACCAGTGGAGGAAGCCTACAAGAGAGGTCTGGTGGGCATTGAGTTCAAAGAGAAGCTCCTGTCTGCAG
AACGAGCTGTCACTGGGTATAATGATCCTGAAACAGGAAACATCATCTCTTTGTTCCAAGCCATGAATAAGGAAC
TCATCGAAAAGGGCCACGGTATTTCGCTTATTAGAAGCACAGATCGCAACCGGGGGGATCATTGACCCAAAGGAGA
GCCATCGTTTACCAGTTGACATAGCATATAAGAGGGGCTATTTCATGAGGAACTCAGTGAGATTCTCTCAGATC
CAAGTGATGATACCAAAGGATTTTTTGACCCCAACACTGAAGAAAATCTTACCTATCTGCAACTAAAAGAAAGAT
GCATTAAGGATGAGGAAACAGGGCTCTGTCTTCTGCCTCTGAAAGAAAAGAAGAAACAGGTGCAGACATCACAAA
AGAATACCTCAGGAAGCGTAGAGTGGTCATAGTTGACCCAGAAACCAATAAAGAAATGTCTGTTCCAGGAGGCCT
ACAAGAAGGGCCTAATTGATTATGAAACCTTCAAAGAAGTGTGTGAGCAGGAATGTGAATGGGAAGAAATAACCA
TCACGGGATCAGATGGCTCCACCAGGGTGGTCTGCTAGATAGAAAGACAGGCAGTCAGTATGATATTCAAGATG
CTATTGACAAGGGCCTTGTGACAGGAAGTTCTTTGATCAGTACCGATCCGGCAGCCTCAGCCTCACTCAATTTG
CTGACATGATCTCCTTGAAAAATGGTGTTCGGCACCAGCAGCATGGGCAGTGGTGTGACGATGATGTTTTTA
GCAGCTCCCGACATGAATCAGTAAGTAAGATTTCCACCATATCCAGCGTCAGGAATTTAACCATAAGGAGCAGCT
CTTTTTCAGACACCTTGGAAGAATCGAGCCCCATTCAGCCATCTTTGACACAGAAAACCTGGAGAAAATCTCCA
TTACAGAAGGTATAGAGCGGGGCATCGTTGACAGCATCAGGGTCAGAGGCTTCTGGAGGCTCAGGCTGCACAG
GTGGCATCATCCACCAACCACGGGCCAGAAAGTGTCACTTCAGGACGCAGTCTCCAGGGTGTGATTGACCAAG
ACATGGCCACCAGGCTGAAGCCTGCTCAGAAAGCCTTCATAGGCTTCGAGGGTGTGAAGGGAAGAAGAAGATGT
CAGCAGCAGAGGCAGTGAAGAAAAATGGCTCCCGTATGAGGCTGGCCAGCGCTTCTGGAGTTCCAGTACCTCA
CGGGAGGTCTTGTGACCCGGAAGTGCATGGGAGGATAAGCACCGAAGAAGCCATCCGGAAGGGGTTCATAGATG
GCCGCGCCGCACAGAGGCTGCAAGACACCAGCAGTATGCCAAAATCCTGACCTGCCCCAAAACCAATTAATAA
TATCCTATAAGGATGCCATAAATCGCTCCATGGTAGAAGATATCACTGGGCTGCGCCTTCTGGAAGCCGCTCCG
TGTCGTCCAAGGGCTTACCCAGCCCTTACAACATGTCTTCGGCTCCGGGGTCCCGCTCCGGCTCCCGCTCCGGAT
CTCGCTCCGGATCTCGCTCCGGGTCCCGCAGTGGGTCCCGAGAGGAAGCTTTGACGCCACAGGAATTCTTCCT
ACTCTTATTCCTACTCATTTAGCAGTAGTTCTATTGGGCACTAGTAGTCAGTTGGGAGTGGTTGCTATACCTTGA
CTTCATTTATATGAATTTCCACTTTATTAATAATAGAAAAGAAAATCCCGGTGCTTGCAGTAGAGTGATAGGAC
ATTCTATGCTTACAGAAAATATAGCCATGATTGAAATCAAATAGTAAAGGCTGTTCTGGCTTTTATCTTCTTAG
CTCATCTTAAATAAGCAGTACACTTGGATGCAGTGGCTGTAAGTGCTAATCAGTTGTAACAATAGCACAAATCG
AACTTAGGATTTGTTTCTTCTCTTCTGTGTTTCGATTTTTCATCAATTCTTAATTTTGGAGCCTATAATACAG
TTTTCTATTCTTGGAGATAAAAAATTAATGGATCACTGATATTTTAGTCATTCTGCTTCTCATCTAAATATTTCC
ATATTCTGTATTAGGAGAAAAATTACCCTCCAGCACCAGCCCCCTCTCAAACCCCAACCCAAAACCAAGCATT
TTGGAATGAGTCTCCTTTAGTTTCAGAGTGTGGATTGTATAACCCATATACTCTTCGATGTACTTGTGTTGTTG
GTATTAATTTGACTGTGCATGACAGCGGAATCTTTTCTTGGTCAAAGTTTCTGTTTATTTTGCTTGTATAT
TCGATGTACTTTAAGGTGTCTTTATGAAGTTTGCTATTCTGGCAATAAAGCTTTTAGACTTTT

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FIGURE 1860

GTCATGTTCTTCGCGCCCTGGTGTGGACACTGCCAGCGGCTGCAGCCGACTTGGAATGACCTGGGAGACAAATAC
AACAGCATGGAAGATGCCAAAGTCTATGTGGCTAAAGTGGACTGCACGGCCCACTCCGACGTGTGCTCCGCCCAG
GGGGTGCAGGATACCCACCTTAAAGCTTTTCAAGCCAGGCCAAGAAGCTGTGAAGTACCAGGGTCTCTCGGGAC
TTCCAGACACTGGAAGTGGATGCTGCAGACACTGAACGAGGAGCCAGTGACACCAGAGCCGGAAGTGAACCG
CCCAGTGCCCCGAGCTCAAGCAAGGGCTGTATGAGCTCTCAGCAAGCAACTTTGAGCTGCACGTTGCACAAGGC
GACCACTTTATCAAGTTCTTCGCTCCGTGGTGTGGTCACTGCAAAGCCCTGGCTCCAACCTGGGAGCAGCTGGCT
CTGGGCCTTGAACATTCCGAAACTGTCAAGATTGGCAAGGTTGATTGTACACAGCACTATGAACCTCTGCTCCGGA
AACCAGGTTTCGTGGCTATCCCACTCTTCTCTGGTTCGAGATGGGAAAAAGGTGGATCAGTACAAGGGAAGCGG
GATTTGGAGTCACTGAGGGAGTACGTGGAGTGCAGCTGCAGCGCACAGAGACTGGAGCGACGGAGACCGTCACG
CCCTCAGAGGCCCCGGTGCTGGCAGCTGAGCCCCGAGGTGACAAGGGCACTGTGTTGGCACTCACTGAAAATAAC
TTCGATGACACCATTGCAGAAGGAATAACCTTCATCAAGTTTTATGCTCCATGGTGTGGTCAATTGTAAGACTCTG
GCTCCTACTTGGGAGGAACCTCTCTAAAAAGGAATTCCTTGGTCTGGCGGGGGTCAAGATCGCCGAAGTAGACTGC
ACTGCTGAACGGAATATCTGCAGCAAGTATTCGGTACGAGGCTACCCACGTTATTGCTTTTCCGAGGAGGGAAG
AAAGTCAGTGAGCACAGTGGAGGCAGAGACCTTGACTCGTTACACCGCTTGTCTGAGCCAAGCGAAAGACGAA
CTTTAGGAACACAGTTGGAGGTCACCTCTCTGCCAGCTCCCGCACCTGCGTTTAGGAGTTCAGTCCCACAGA
GGCCACTGGGTTCCAGTGGTGGCTGTTTCAAGAAAGCAGAACTAAGCGTGAGGTATCTCTTTGTGTGTGTG
TTTTCCAAGCCAACACACTCTACAGATTCTTTATTAAGTTAAGTTTCTCTAAGTAAATGTGTAACCTCATGGTCAC
TGTTGTAACATTTTCAGTGGCGATATATCCCCTTTGACCTTCTCTTGATGAAATTTACATGGTTTCCTTTGAGAC
TAAATACAGCTTGAGGGAAATGAAATTGCTGGACTATTGTGGCTCCTGAGTTGAGTGATTTGGTGAAAGAAAG
CACATCCAAAGCATAGTTTACCTGCCACGAGTTCTGGAAAGGTGGCCTTGTGGCAGTATTGACGTTCCCTTGAT
CTTAAGGTCACAGTTGACTCAATACTGTGTTGGTCCGTAGCATGGAGCAGATTGAAATGCAAAAACCCACACCTC
TGGAAGATACCTTCACGGCCGCTGCTGGAGCTTCTGTTGCTGTGAATACTTCTCTCAGTGTGAGAGGTTAGCCGT
GATGAAAGCAGCGTTACTTCTGACCGTGCCTGAGTAAGAGAATGCTGATGCCATAACTTTATGTGTGATACCTG
TCAAAATCAGTTACTGTTCAGGGGATCCTTCTGTTTCTCACGGGGTGAAACATGTCTTTAGTTCCCTCATGTTAACA
CGAAGCCCAGAGCCCACATGAACGTGTTGGATGTCTTCTTAGAAAGGGTAGGCATGGAAAATTCCACGAGGCTCA
TTCTCAGTATCTCATTAACTCATTGAAAGATTCCAGTTGTATTTGTACCTGGGGTGACAAGACCAGACAGGCTT
TCCAGGCCTGGGTATCCAGGGAGGCTCTGCAGCCCTGCTGAAGGGCCCTAACTAGAGTTCTAGAGTTTCTGATT
CTGTTTCTCAGTAGTCCTTTTAGAGGCTTGCTATACTTGGTCTGCTTCAAGGAGGTCGACCTTCTAATGTATGAA
GAATGGGATGCATTTGATCTCAAGACCAAGACAGATGTCAGTGGGCTGCTCTGGCCCTGGTGTGCACGGCTGTG
GCAGCTGTTGATGCCAGTGTCTCTAACTCATGCTGTCTTGTGATTAAACACCTCTATCTCCCTTGGGAATAAG
CACATACAGGCTTAAGCTCTAAGATAGATAGGTGTTTGTCTTTTACCATCGAGCTACTTCCCATATAAACCCT
TTGCATCCAACACTCTTACCCACCTCCCATACGCAAGGGGATGTGGATACTTGGCCCAAAGTAACTGGTGGTAG
GAATCTTAGAAACAAGACCACTTATACTGTCTGTCTGAGGCAGAAGATAACAGCAGCATCTCGACCAGCCTCTGC
CTTAAAGGAAATCTTTATTAATCACGTATGGTTCACAGATAATTCTTTTTTAAAAAAACCCACCTCCTAGAGA
AGCACAACCTGTCAAGAGTCTTGTACACACAACCTCAGCTTTGCATCACGAGTCTTGTATTCCAAGAAAATCAAAG
TGGTACAATTGTTTGTGTTTACACTATGATACTTTCTAAATAAACTCTTTTTTTTT

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FIGURE 1861

ATGGACAGGACTGTCATTTCAGAAATACCACACTGTGAATGGCCACAGCTGTGAAGTTAGGAAAGCCCTGTCAAAG
CAAGAGATGGTTAGTGCTTCATCCAGCCAAAGAGGTCTGAAGTGGTTCTGGAACTTTGCTGGTGGTCTTAGAAGT
GGTTTCAGTGGGAATAACAACCTTTGGTCGTGGAGGAACTTCCGTGGTCGTGGGGCCTTTGGTGGCAGCCGTGGT
GGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATATGGTAACGATTGA

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FIGURE 1862

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCCGCTGCTGGCCAACCTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTCGGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCGCTGCGCTATGCGGGGCTCGTCTCCCCGCGCCTATGTCGCACGCTGGCCAGCGCCTCCTGGCTAAGC
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCCGCTGTGCGCGCCCCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTT
GCCGCCCGCTGGTCATCCTGCTGCTGCCGTTTGCCGTCATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC
TGTTGCATGCGGTTTACGCGGAGGCCGGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 1863

ACTTCTGGGGCAGCCGTGAGCAGCGGGCACACGGGCAGCCACGAAAGCAGCAGCGAGGGTGGTGCAAACACCTCA
TAACTACACCGAATCCAGTAGCGCCTGGCGCCCCGGCGCGCAAGGCCGCTCTACTCCGCCTCATCTTTGTCCC
AAGTCCTTTACAGCCTGCCTTCCTCAAACGGCCCGATGCGCCCCGCTCTTTGCCGGAGTAAGCAGACCGCCAGC
AGCCGGCCCGCAGGTCAGTCGACCCTCTCTGGATGCAGGTCGCCGGGAAACCCGGAGCGGAGCATCCCTCGGGC
CGGGAAACGCCCTCGGCGCGCACCCACTGGCGCGCATGCTCAGTCCGCGCGGCGGCTGCGAGTAGGAAGCTCCGC
GCGGCGGCGGGGGCGGCGACGGCGACTGGCGGGTGGGAGTGGAGGCACCGGCTGGCGGGCGGGGTACAGGGACG
GGGCAGGGGCTCCCGCTCCAGGTTCTTTGAAGCACTTCCGACCGCGAAGCCCGGCGGAGAGCGAGCTAACCCA
AGAGCCAACAACGAGCGCGGAGAGGGCAGCGGACTGAGCGGAGCCGCGGCGGAGAGCGGGCTCGGAGCCCCGGTC
TCCGCCGCTCGGGACCCGGCTAGGCGGCGGCGGGGGCGGCGATCTTCCACTGCATCCCCCTGTGGCGGTGCAACC
GTCATGTGGAGAGCATCGACAAGCGCCACTGCTCGCTGGTCTACGTCCCGAGGAGATCTACCGCTATGCCCGGA
GCCTGGAGGAGCTGCTGCTGGACGCCAACCAGCTCCGCGAGCTGCCCGAGCAATTTTCCAGCTAGTCAAATTAC
GAAAGCTTGGACTTAGTGATAATGAAATTCAGCGGCTCCCTCCAGAAATAGCAAACCTTCATGCAGCTGGTGGAA
TAGATGTGTCTCGAAATGAGATTCTTGAATTCAGAAAGCATTTTATTCTGTAAAGCACTGCAGGTAGCTGACT
TCAGCGGAAACCCACTGACTAGGTTGCCAGAAAGCTTTCTGAATTACAGAATTAACATGTCTTTCTGTAAATG
ACATCTCACTACAGTCTCTACCTGAAATATTGGCAATCTTTATAACCTGGCTTCACTGGAAGTGAAGAGAAATC
TTCTTACATATCTTCTGACTCTCTTACCCAGCTGCGAAGACTAGAAGAACTGATTTAGGAAACAATGAAATAT
ATAATTTGAATCAATTGGAGCCCTCTTACATCTAAAGATCTCTGGTTGGATGGAAATCAACTGTCAGAATTACC
TCAGGAAATAGGAAATCTGAAGAACCTGCTGTGTTAGATGTCTCTGAAACAGGTTGGAAAGACTTCCTGAAGA
AATCAGTGGCCTGACTTCATTAACGGATTAGTCATTTCCAGAACTTATTAGAAACGATTCCGGATGGCATTGG
AAAACATAAGAACTGTCAATCTTGAAGGTGGATCAGAATAGACTCACACAGTTGCCTGAAGCAGTTGGGGAATG
TGAAAGTCTCACTGAGTTAGTTCTTACAGAAATCAGCTCCTGACCCTGCCTAAAAGCATTGGAAAACATAAGAA
GTTGAGCAACTTGAATGCAGACAGAAATAAATTAGTGTCTTACCAAAGAGGTATGTGCTTTTAGAGAAATCAC
ATGATAAATAATTATGAAGAAATAATAATAACATAAGGGATCAAAATGTCAAATGCTTTGAAAAGACGCATGT
GTTGTTTTTTAAAGGTGTGAATCTTAAATCTGTGAGTATAGAGCCAACCTGGAGGAATTATGTCAAAGAAATGATCA
TCAGTAACATTAAGGAGAGTTGGAAAAGGTGAATTTATAGGATTTTAAATGGGAGAAAGAAAGAGATTGACATTT
TGGGTTTGATATACAGAGAAATGGTGACACCATTGGCAGAAATTGATAATTTGGGAGTTTGACAGAGGAAGTGGAT
GCCTTTGGGTTTGATTTTGAATTTAATGTGAATTAAGCTCCATCCATAAGCAATTGGAATTATAAAAATTGA
TCTTGATGCAACCATATTTCTGGGCAGAGATTTACATTGGGCCATGCTCATGTCTTGGATGAGGTTGAACAACT
GTTACAAAAGGCATACATAGAGGAAGGTGAATGGGAAGCTAAAGCCAGCTTCTAGGACTTTTTTTTTTGGTTA
GTAGTCTAAGCACGAGAAAAATGAGACATCACCATCTGTTGTGGAGAGTAGCTGTATGGACTGAGAGGCATTTAAA
TTCTGGCAAGGGAGGTGGAAATGCTGACAATGAGGAGGAAGCTTATAGTGGGTCAAACAAGGAGGTGTCTAGTGT
GTTGTTTTTAAAGAAGGCTTACAATTAGCCAGGCGTGGTGGCGGCGCCTGTAGTCCAGCTACTCGGGAGGCTG
AGGCAAGAGAATTGCCTGAACCCGGGAGGCTAAGGTTGAGTGAGCCGAGACCACGCCACTGCACTCCAGCCCGG
GTGACAGAGCGAGACTCTATCTCAAAAAAAAAAAAAAAAAAAAAAAAAAATG

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FIGURE 1864

MFHCIPLWRCNRHVESIDKRHCSLVYVP EEIYRYARSLEELLLDANQLRELPEQFFQLVKLRKGLSDNEIQRLP
PEIANFMQLVELDVSrneipeipesisfckalqvADFSGNPLTRLPEsfPELQNLtCLSVNDISLQSLPENIGNL
YNLASLELRENLLTYLPDSLtQLRRLEELDLGNNEIYNLNQLEPSYI

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FIGURE 1865A

CGGTGCTGGAGAAGTTTGCCTGCGGTTTCGTGAGCGCAGGGTGCAGGGCCCCGCCGGCCGCTGCGCGCCCGCTGCC
ATGGCTTTCCGCAGGAGGACGAAAAGTTACCCGCTCTTCAGCCAGGAGTTCGTATCCACAACCATGCGGACATC
GGCTTCTGCCTGGTGCTCTGCGTCTCATCGGGCTTATGTTTCGAGGTCACAGCCAAGACTGCCTTTCTATTTATT
TTACCTCAGTATAACATTAGCGTGCCTACAGCAGACAGTGAGACCGTGCCTACTACTATGGCCCTAAGGACCTG
GTCACAATCTGTTCTACATCTTCATCACCATCATCTTGCATGCTGTGGTTCAGGAGTACATTTTAGATAAAATC
AGCAAACGGGCTTCATCTCTCCAAAGTCAAACACAGCAAGTTCAATGAATCTGGACAGCTGGTCTGCTTTTCATTTC
ACCTCGGTGATTTGGTGCTTCTACGTGGTGGTGACGGAAGGATACTTAACAAACCCAAGAAGCCTCTGGGAAGAC
TACCCGCATGTGCACCTCCCTTCCAGGTGAAGTTTCTTACCTATGCCAGCTGGCCTACTGGCTGCACGCACTT
CCTGAGCTATACTTCCAGAAGGTACGGAAGGAGGAAATTCCCCGCCAGCTCCAGTATATTTGCCTGTACCTGGTG
CATATAGCTGGAGCATACCTCTTAAACCTGAGCCGCTGGGCCTGATCTTGCTGCTGCTGCAGTACTCAACTGAG
TTCTCTTCCACACGGCTAGACTCTTCTACTTTGCAGATGAAAACAACGAGAACTGTTCACTGCTGGGCTGCT
GTTTTTGGGGTTACCCGCTCTTCATCCTCACCTTGCCGTGCTGGCCATTGGCTTGGACTGGCTCGCATGGAA
AACCAGGCATTTGATCCCGAGAAAGGGAACCTCAACACTTTGTTTTGCAGGCTCTGCGTGCTGCTGCTGGTGTGT
GCCGCCAGGCTGGCTCATGTGGCGCTTCATCCACTCCCAGCTGCGGCACTGGCGGGAATACTGGAATGAGCAG
AGTGCAAAGCGGAGAGTCCCAGCCACACCCAGACTACCAGCCAGGCTCATCAAGAGGGAATCTGGTTACCATGAA
AATGGAGTGGTGAAGGCAGAGAACGGAACCTCCCCACGGACTAAGAACTCAAGTCTCCCTAAGGCCAAAGTGCT
AAGAACAGGAATCCTCTTGGTGGGGGCCGAGCAGGGGGCAAGGAGCCAGGCCCTCCCTGCCTCCTCCTTCTCCT
GCCTGTGATGCTCCGTCTCAAACAGCCGAAACCTGTCTTGCAATGGGGGGAGGGGGCGTTTCGCTTTCCTTCTTC
TTGGCTTCCTCTTATTCTTCCACAAACCATTCTCAATAAAGCCAAAAATCTTCTCTTCTCCCCCTCAGGCCAC
CTCCTGTCTCTCACCTCTGTCTGTGGCTTTTCTGGAACGCCAGGCGCCCATGGCTGGCACCTTTCTGCTTGC
TCTGTCTCTTGCTTATAGGCTGCTGCTTTTCTTTTACTTCTTATTTTACCTTATCTTGCAATTTTCTGTCT
GATTTTTACAATGGGAGGGGAGCTAAGATTGCAGTCCGTCTTCCGTCCCCCAGGGCCTGCCGGTTCAGAAGCCT
GGGGCTGGTAGGCCCTTGGTGGTCTCATGTGGATGGGCAAGAAGAGAGCGGCCATCTCGGATCATAATCTCCTT
GGTGCTGATTAAGTACGAGATATATGATTCCAGTTCGTGATGTACCATCTTGAGGCACAGCAGCCACTGCTCGT
TGTAATGCCAAGGCATTTGGCTTTGGGACGTGACAACTCAATCCAGAAGGATGGTGTGAACTCGGTTGGGTCCC
GTGACTCGAGCTCCTACAGTGGCTGGCCGCGGATTGGAAGCCAGCCTGCTGTGCTCTGTGGGGGGGACACGT
CTTCCCACTGCTTAGAGCGAGAGCAGAGCAAACTGCGCAGCAGGCACCTCCAGAAAGGTAATGGTGGCAGAACCC
ACAGTGGAGTCGACCTAGGCCCTTCTCCAGCAGTCCCAGTCGCCATTGCTTTTTTCAGCCATTACAAAGCATTCAA
AACCAAACCAACAGCAGTTTCATATACCTGCCTGAGATAGGCTGGTCTCACCTCCAGAGCCAGCCAGCCCCGTC
AGGGGCCAAACTTACTACCTTGACTTCATCTCTAGCTGCAGAAACACTAAGTCTCAAGGGCTTCAGCCCCATGCT
GGTCCCTTGGTGTTCAGGGAGGGTCACTTGGACCGCTGTTTCATCTGGCCGCCCTTGTGAGTGTCTTTTGAATT
GTCGTTTTTTGAGCACAACTACAGCATTTCAGTGCATGAAACCATGACTGACTGAGAGTCACTCTCTGGGTAG
ATGATAGGCGCCTTCTGGCCCCCTTCCCTCACAGATTCTTCCCTCCCTCCACCTGAAGAGAAGGCCCTCCAAG
TCCTTTTGGTGCCTTGTGAGGACTTTTAGAAGGGGCGTTACAGCTTTAAAAAGCCGGTCTTAATTACGGCCGGACG
CAGTAGCTTACGCCTGTTATCCCAGCACTTTGGGAGGTCGAGGTGGGCAGATCACCTGAGGTTAGGAGTTCAAGA
CCAGCCTGGCCAACATGGTGAAACCCCATCTCTACTAAAAATACAAAAAATTAGGTGTAGTGGCAGGCACCTGTA
ATCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATCGCTTGAACCTAGAAGGCGGAGGTTGCAGTGAGCGGAGATT
GTACCATGGCACTCCAGCCTGGACAACAAGAGCGAAATCTGTCTAAAAAACAAGTCCCAATTAAGAACCTC
CGAACTCTGTTTTGAGGCAAGGGGAGTAGTCTTGGTAGGTGCAGGAATAGTAGTGTCATTGGGAATACTGGTC
ATCTTTCTGACATCACAGTAGAAACCAACCTTGGATTTAGATTCAAAAGGGGGGAAATGGGCTTTTTCATCAAG
GCACTCCCTTCTCCAAGTCACTTACATCATAGATAAATTTAGCTTCCAGTAAGTGGAGGATTGTTTCTTA
ACGCCATTGGAGGCCTTCATCCCTCTCTACGATAAGGTTCAGAAATGGGAAGAGCTACCCGTGGTGTCTTTGA
TTACCTTAGGAAGTGAGACAGTGTTTTTGAAAATATGTATTTCCCCATTTCTCCCTCTCCTTCCCTGACACTT
CTCTGGGCTGCACAGCAGAAACGTTGGTAAAGGGCAGTTTGGTTTCAACACAGCAGACCTGATATGGGATCCCT
TAGCCACTTTAGTCAACAGCCCTGACAGAGTCTATAATTGAGTTTCAAGGCCCCCACCTTGCCTAATAACTGCAA
ATCGCATGTTAGCCAGCAGCCTCCTAAGCCACCTTCTCCCCCATTTAGAGAACACCCATCCTAGGTGCTCTCC
AGGCTGTGTCATTGGCAGGGCTTCACATGCAGGAGGCCTCTCTCAGGTGAGTCCAGGTTAACTGTTGAGTTGTG
GCTTCAACAGATATGTATGGCATGCTGGGATGTGCCAGGTGCCTGCGTTGTGCCAGTTGCTGGAGAGGTAGTGTG

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FIGURE 1865B

AGCAGAGCAGCTGAAATCTTGCCATCAAGCAACCCCTATTCTCATGCCTGTAGGTTTCCATTGCTCTGTCCCAGG
ACACTTGCGTGCCAGAGACGCCACAACCTTCATGTCCCTGTCTCTTGCAAGCTCCCCGTGCTGCCAGTACTTCATG
CCTTGGATGTGGTCCCACCAGCCCAGTGCGCGGGGTGAGCTTAGGCTCTGCTTCCCAGTGGACGGGTGTGCTAAG
GGTTTATTTTATGTAAAAAACAACCAACCCCTGAGACCATGAGTGGGGCTGGCATCTTGCCA
GCCTGGGCTTCAGGGATGTTTGGGGGGGTGGTTAGAGGGTAGTTGTAGGGTACTTTGTCACCCCCTCCCCCTG
CCACCCTCCCTGGCAGCTTTATTTACAGCAGAGCCAAGTCTGTGGCAGGTTGACACAGACTGTGTTGCCAGAGC
TGAAATAATTCACCTTCATCCTATGAGCGTGTGGGCTAGCTTGTCTAATTTTGGCCACTTTGGCTGTTTTCTT
CAGTTTTATGCATTCTCTCCTGCCCAAAGTGCCAAGCCATTGTGAAGGCTCTGCCAGACACCTCCAAGCTTGA
GAGCTCAGCACCATGCACCAAGAGCAGGAGAAAAGACGTAAACCTACCCAGCAACTGTGGCCTCTCGACAGCCC
TGGCTAACTAACTTACATTTGTGGGAAGCCAACAGACACAGCAGGAGGAGAGGGAGGTGGCGCTGGTGGACCA
GGATCTGTGCTACCCGCTCCCCCTCTGGAGGTGCAGTGATGATGGGAGTTATTTTACCATCCGGCGCTGATA
GCTGCATATTAATAAATTGCATGTGTTCTTTTGAAGGTAGGGGATGGTTCTGGGTGAGAGGGGAGCAGGCTGA
GCCGGCGGGGATCTGCTGTCTCCCTTTTGTAGTCAGTTCTAATCCCATGTGTGCTGGGCCACCAGACCGAAAT
GGTTGCTGAGAACTTGTCTGTTCATGTCCCAAGGCATAACTTCCCAACATTTAAGAAACCCCAATAGACACCTC
TGCCCTGGCCACGTTACAGATCCTTCTCTTGACCGAAACCTGGGACCCCTAAGAACCCTGAAGCTTGGGGTG
GGTGTGTGCTTCTGGGGTCTCTTTTGGGACCTCCTTGTGTCAGTACCCCTTCTTTTTTCTAAGCAGCTAATAAGAG
GTTGGGTGAAAGAGTGCATCTCCTCCAGGATTCCACAACAAATTTCTATCTTCCATGGATGCTTTAATTGGAA
GTGGGTGGCGACCCCTTGTGCTAGAAAAGGCTTCGCTTGGGTTTCTTTTGTATGCTTCAGCCTTCTAGTT
GGTTTTCTAGGCCTGGTGTGAGAGGTAGGGAAGTCTGCACATAACTAATCTTTTGGCTAAGGGCCTATGGCAC
AAGTGCACAACTTCAATCTTGATGTTCTAAGCTCTCTCCTCTAACAGAGGGAGTGCTGAAAGCTTTTGTAGTCA
AGACAATGGAGTGCTCTTCTCCTCCTCACTCTGCCTTCCGAGCTTATGGTCTCTTTTCTCAGGAGAGGATTTTCAG
GATTATTGGAGGATTAGGTCAITGTCAGATGACTGGAAAACCTAAATAGGATCTCTCTCCAGCTCAAGGTTGTCC
CAGTGAGGAAGACTTACCAACTTCTCACTCTACCCCACTACTCACATGAGTGTTAGCTCCACCTTGCAAAGGCT
GAAGACCAGTTCTCCCAAGTGAAGCTGCCTCATTCTTTATGGAGTTCCCTGGAGTGGCAGAGCTATAAAGACG
AGCATTGGGATTTGCAGTCTCCATGTAGCCTTTCTGTGCTTGGCAACCCCTGTAGACTTTTTGTCCCAAGGAT
GCGTGCGTGCGCCTGTGTGTGAGAATAAGTGCCTTACTTTGTGTGTGGTTTCAACTTGTACTCCGTGGCCAGC
CCCCAGTTGCCAGGGCTCGACGGCAGCAAGGACACCATACCTCAGTATAGTTATATATAAAGGGACACGGATT
GTGACAGTTTACCCCATTTGTTTCTAACCCCGCTGCCAGGATTAGGGTCTGTGGTGTGTTCTGTTTTGTTTTT
GGTTTCTCCCTTGTGTCAGTTCTCTTCTGGCCAGCTGGGTGGCTGTGGAAGTCTGTGAGGTGGCCCAACCAAA
GCATACCTATTAAGAGAAGCCAGAGCTTCCAGCCCCCACTTCGAAAACCTCTCCTTGGCCCCACATAGCAAAC
CCTTCTCCGTTATTTTCCCCACCCCAAGATTTTTTAAAGGCCCACTTGCCGTAACCTCTTTTGGTCTATTTT
GCTTCCCATTCAGCCCAAAGTTTATATGATAAAGGTGTTTACTTTTACTTCCAGTCTCCAAGTGCTAACACATA
AACACATACATGTCTGACTGTTGCGAAGTGTTCGAGTCTCTAATTCAGTGTTACCTTGTGTTTGTGCGCAGCAAC
CCTCTCCCTTACCCCTTGGCCGCCCACGTTTTTCTCACTCTTCCGGGTTGTGCAATAACTCTCCAGCCAGTGGT
CCTTTCCACAGCCTTCTGTCCCTTAAACACCTGCAACTGGGGGAGAAATGGGACCCATGGGAGGGGGAGTGGT
CATCCCTTACACAAGAAATAGCCACTTTCCTTTTGTGTCATTCTTGTGATCCTGGGTGGGTTTCTGTGGCACTC
TTTTAGAACATGTAGCATCATCTTAGAGGTCTATTTTTAAAAAATGTGTTGAAGAGGAAAAAACCATTCTCACGA
TGGGGCTTAAGTCATTGTCCAGGAATAAGATTGGCGTGGTGCCCATGACATCACCGTCACTCTGCCTAAAAGCAC
TCTAGAGCTACTTGTTCACGTGGAGAGGAAGGATATTTTGGCAAGCAACAGCCGAGGTGGAGAGCCCTGTTTAC
CTGATAGGGTCTAGCTGTGACAGTAAATATAATACCGCTGTTTCTTGGGTACAGATTTGAGTGTTCATGTGATG
AGACTGTAAACCTCATTTTTCGGTTCTCTGTTTAAAAAATCTGTAAGGATGAACCTAAGGCTGCTGGTGCCTT
GAGCAACTGATAATGCAATGTGGACAAAGTGTCTGTTTCTACTCTAGCCTGTTTATATGGACCAAAATTTCAAC
AAGGAACCTCAAGGAAATTTGTACCTGCCGTATTTATGCTTTCATGTAAAAAAGGGTGGGGGGAGGGGTGTCTT
TTTGCTTTTGGTGAACCTTTTTTCAAAATCATTTTTCCACTGTTTCTGTCTGGTTTTTAAACAAATTACAGTTTT
GTATGGATTTTTTAAATGTACATTTTGGACAAATGATCAAATATTTTCTGAAATAACAATAAAGGCAGAAAAAT
T

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FIGURE 1866

CGGCACGAGGCGACTTTGGTGGAGGTAGTTCTTTGGCAGCGGGCATGGCGGGTACCGTGGTGCTGGACGATGTGG
AGCTGCGGGAGGCTCAGAGAGATTACCTGGACTTCCTGGACGACGAGGAAGACCAGGGAATTTATCAGAGCAAAG
TTCCGGGAGCTGATCAGTGACAACCAATACCGGCTGATTGTCAATGTGAATGACCTGCGCAGGAAAAACGAGAAGA
GGGCTAACCGGCTTCTGAACAATGCCTTTGAGGAGCTGGTTGCCTTCAGCGGGCCTTAAAGGATTTGTGGCCT
CCATTGATGCTACCTATGCCAAGCAGTATGAGGAGTTCTACGTAGGACTGGAAGGCAGCTTTGGCTCCAAGCACG
TCTCCCCGCGGACTCTTACCTCCTGCTTCCTCAGCTGTGTGGTCTGTGTGGAGGGCATTGTCACTAAATGTTCTC
TAGTTCGTCCTCCAAAGTCGTCGCGCAGTGTCCACTACTGTCTGTACTAAGAAGACCATAGAGCGACGTTATTCTG
ATCTCACCACCCTGGTGGCCTTTCCCTCCAGCTCTGTCTATCTACCAAGGATGAGGAGAACAATCCCCTTGAGA
CAGAATATGGCCTTTCTGTCTACAAGGATCACCAGACCATCACCATCCAGGAGATGCCGGAGAAGGCCCCAGCCG
GCCAGCTCCCCCGCTCTGTGGACGTCATTCTGGATGATGACTTGGTGGATAAAGCGAAGCCTGGTGACCGGGTTC
AGGTGGTGGGAACCTACCGTTGCCTTCCTGGAAGAAGGGAGGCTACACCTCTGGGACCTTCAGGACTGTCTCTGA
TTGCCGTGTAATGTTAAGCAGATGAGCAAGGATGCTCAGCCCTCTTTCTCTGTGAGGATATAGCCAAGATCAAGA
AGTTCAGTAAACCCGATCCAAGGATATCTTTGACCAGCTGGCCAAGTCATTGCCCCAAGTATCCATGGGCATG
ACTATGTCAAGAAAGCAATCCTCTGCTTGTCTTTGGGAGGGGTGGAACGAGACCTAGAAAATGGCAGCCACATCC
GTGGGGACATCAATATTCTTCTAATAGGAGACCCATCCGTTGCCAAGTCTCAGCTTCTGCGGTATGTGCTTTGCA
CTGCACCCCGAGCTATCCCCACCACTGGCCGGGGCTCCTCTGGAGTGGGTCTGACGGCTGCTGTCAACACAGACC
AGGAAACAGGAGAGCGCGCTCTGGAAGCAGGGGCCATGGTCTGGCTGACCGAGGCGTGGTTTGATTGATGAAT
TTGACAAAATGTCTGACATGGATCGCACAGCCATCCATGAAGTGATGGAGCAGGGTCGAGTGACCATTGCCAAGG
CTGGCATCCATGCTCGGCTGAATGCCCGCTGCAGTGTCTTTGGCAGCTGCCAACCTGTCTACGGCAGGTATGACC
AGTATAAGACTCCAATGGAGAACATTGGGCTACAGGACTCACTGCTGTACGATTTGACTTGTCTTTCATCATGC
TGGATCAGATGGATCCTGAGCAGGATCGGGAGATCTCAGACCATGTCTTCCGATGCACCGTTACAGAGCACCTG
GGGAGCAGGATGGCGATGCTATGCCCTTGGGTAGTGCTGTGGATATCCTGGCCACAGATGATCCCAACTTTAGCC
AGGAAGATCAGCAGGACACCCAGATTTATGAGAAGCATGACAACCTTCTACATGGGACCAAGAAGAAAAAGGAGA
AGATGGTGAGTGACGATTCATGAAGAAGTACATCCATGTGGCCAAAATCATCAAGCCTGTCTGACACAGGAGT
CGGCCACCTACATTGCAAGAAGATTTACGCCTGCGCAGCCAGGATAGCATGAGCTCAGACACCGCCAGGACAT
CTCCAGTTACAGCCCGAACACTGGAACCTCTGATTGACTGGCCACAGCCCATGCGAAGGCCCGCATGAGCAAGA
CTGTGGACCTGCAGGATGCAGAGGAAGCTGTGGAGTTGGTCCAGTATGCTTACTTTAAGAAGGTTCTGGAGAAGG
AGAAGAAACGTAAGAAGCGAAGTGAGGATGAATCAGAGACAGAAGATGAAGAGGAGAAAAGCCAAGAGGACCAGG
AGCAGAAGAGGAAGAGAAGGAAGACTCGCCAGCCAGATGCCAAAGATGGGGATTATACGACCCCTATGACTTCA
GTGACACAGAGGAGGAAATGCCTCAAGTACACACTCCAAAGACGGCAGACTCACAGGAGACCAAGGAATCCCAGA
AAGTGGAGTTGAGTGAATCCAGGTTGAAGGCATTCAAGGTGGCCCTCTTGGATGTGTTCCGGGAAGCTCATGGC
AGTCAATCGGCATGAATCGCCTCACAGAATCCATCAACCGGGACAGCGAAGAGCCCTTCTCTTCAGTTGAGATCC
AGGCTGCTCTGAGCAAGATGCAGGATGACAATCAGGTCTGCTGAGGGCATCATCTTCTCATCTGAGGAG
GCCTCGTCTCTGAACTTGGGTTGTGCCGAGAGAGTTTGTCTGTGTTTCCACCCCTCTCCCTGACCCAAGTCTTT
GCCTCTACTCCCTTAACAGTGTTGAATTCAACTGAAGGCGAGGAATGTTGGTGATGAAGCTGAGTTTCAGGACTCG
GTGGACCCCTTTGGGAATGGGTCTATGAAAGCTGCCATGGGGTGAGGAAAGAGGAGACAGTGGGAGAGGACAATGAC
TATTGCATCTTCATTGCAAAAGCACTGGCTCATCCGCCCTACTTCCCATCCCACACAAACCAATTGTAAATAAC
ATATGACTTCTGAGTACTTTTGGGGGCACAACTGTTTTCTGTTTGTGTTTTTTTGTGTTTTTTTCTCCAG
AGCACTTTGGTCTAGACTAGGCTTTGGGTGGTTCCAATTGGTGGAGAGAAGCTCTGAGGCACGTATGCAGGTCA
AGAAAGCTTTCTTTGCAGTAGCACCAGTTAAGGTGAATATGTATTGTATCACAAAACAAACCAATATCCAGATG
AATATCCGAGATGTTGAATAAACTTAGCCATTTCTGTACAAAAAAGGGGGGCCCGGTAAAC

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FIGURE 1867

MAGTVVLDDELREARQDYLDLDDDEEDQGIYQSKVRELISDNQYRLIVNVNDLRRKNEKRANRLNNAFEELVA
FQRAKDFVASIDATYAKQYEEFYVGLEGSFGSKHVSPRTLTSCLSCVVCVEGIVTKCSLVRPKVVRVSVHYCPA
TKKTIERRYSDLTTLVAFPSVVYPTKDEENNPLETEYGLSVYKDHQTITIQEMPEKAPAGQLPRSDVILDDDL
VDKAKPGDRVQVVGTYRCLPGKKGGYTSCTFRVLIACNVKQMSKDAQPSFSAEDIAKIKKFSKTRSKDIFDQLA
KSLAPSIHGHYVKKAILCLLLGGVERDLENGSHIRGDINILLIGDPSVAKSOLLRYVLCTAPRAIPTTGRGSSG
VGLTAAVTDDQETGERRLEAGAMVLADRGVVCIDEFDKMSMDRTAIHEVMEQGRVTIAKAGIHARLNARCSVLA
AANPVYGRYDQYKTPMENIGLQDSSLRSRFDLLFIMLDQMDPEQDREISDHVLRMHRYRAPGEQDGDAMPLGSAVD
ILATDDPNFSQEDQDQTIYEKHDNLLHGTKKKKEKMVSAAFMMKYIHVAKIIPVLTQESATYIAEYSRLRSQ
DSMSSDTARTSPVTARTLETILRLATAHAKARMSKTVDLQDAEEAVELVQYAYFKKVLEKEKKRKRSEDESETE
DEEEKSQEDQEQRKRKRTRQPDADGDSYDPYDFSDTEEMPQVHTPKTADSQETKESQKVELSESRLKAFKVA
LLDVFREAHQAQSIGMNRLETESINRDSEEPFSSVEIQAAALSKMQDDNQVMVSEGIIFLI

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FIGURE 1868

ATGACTGCATCCAACCTCGCAGGTGCGCCAGAACTACCACCAGGACTCAGAGGCCGCCATCAACCGCCAGATCAAC
CTGGAGCTCTACGCCTCCTACTTTAACCTCTCCATGTCTTACTACTTTGACCGTGATGATGCGGCTTTGAAGAAC
TTTGCCAAATACTTTCTTCACCAATCTCATGAGGAGAGGGAGCATGCTGAGAACTGATGAACTGCAGAACCAA
CAAGAGTGTGCATTACATTTGGAAAAAATGTGAATCAGTCACTACTGGAAGTGCACAACTGGCCACTGACAAA
AATGACCCCCATTTGTGTGACTTCATTGAGACACATTACCTGAATGAGCAGAATTGGGTGAACGTGACCAACTTG
CACAAGATGGGAGCACCCGAATCTGGCTTGGCAGAATATCTCTTTGACAAGCACACCCTGGGAGAAAGAGGGAGC
ACTGGAATGTTTAATTCGGACAATGCCAATACAAGTTTACAGAGAAGAGAGAACTTTCCATTGGGTTTTGAAGGT
TCTGCTGATTTTCAATGGGCAGAGGTGGAGGAACAGTCTGAGCAGAGAGAAACATCATAAACAAAGGAGTGAATGT
GAGAAAGGCTTCAGGTCCCATCAGAGTACTGGCTTCACTTTGACTGTAGAAGATTTAGTTGAAGCAGTATTCAAA
AGTGTAGAAGTTGTCAAGCTACCTATCCAGTCCCTTGTCTTCTGAAACAGTGGTTACCTGCTCTGGAAAACCTT
CTCTCTCCATCCTCCAAAGCTCCTGGGGTACAGCTTTATCAGCGCACCTATCACACTGATTCTGGTCTCCAAAA
CTCTTCTTGCTGAAAACAGCATACAAAATACTTTCCCTCTTCAAAGCCCAATACAACACTGGAAAAGCAATGGAG
AAGAAAGTACTCAGTATCTTTTCCCCACTAAAAGTTGTACTGCAATGCTTGAACACAACCTGGAGGAGCCCTAGGT
TTATCAAAAGTATCTGCCATTTCTAAAAGAATGTGTTTCCAAGGCATCCAGAAAGAGCTCTTTCCAAGTGCACCA
AATTCCATTTGCTTTCCACACCCTGTCCCGACAAGGGGTGCTGCAGAAGCACAAAGCCAGCCAGATGCATGA

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FIGURE 1869

MTASNSQVRQNYHQDSEAAINRQINLELYASYFNLSMSYYFDRDDAALKNFAKYFLHQSHEEREHAEKLMKLQNO
QECALHLEKNVNSLLELHKLATDKNDPHLCDFIETHYLNQNWVNVTNLHKMGAPESGLAEYLFDKHTLGERGS
TGMFNSDNANTSLQRRENFPPLGFEGSADFQWAEVEEQSEQREHHKQRSECEKGFRRSHQSTGFTLTIVEDLVEAVFK
SVELVKLP IQSSCLLKQWLPALLENLLSPSSKAPGVQLYQRTYHTDSGLQKLFLLKTAYKILSLFKAQYNTGKAME
KKVLSIFSPLKVVLQCLNTTGGALGLSKVSAISKRMCFQGIQKELFPTAPNSICFPHVPVTRGAAEAQSQPDA

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FIGURE 1870

CGGACGCGTGGGCGGGTTCAGCCATGGGGACCTCTCCGAGCAGCAGCACCGCCCTCGCCTCCTGCAGCCGCATCG
CCCCGCCGAGCCACAGCCACGATGATCGCGGGCTCCCTTCTCCTGCTTGGATTCTTAGCACCACCACAGCTCAGC
CAGAACAGAAGGCCTCGAATCTCATTGGCACATACCGCCATGTTGACCGTGCCACCGGCCAGGTGCTAACCTGTG
ACAAGTGTCCAGCAGGAACCTATGTCTCTGAGCATTGTACCAACACAAGCCTGCGCGTCTGCAGCAGTTGCCCTG
TGGGGACCTTTACCAGGCATGAGAATGGCATAGAGAAATGCCATGACTGTAGTCAGCCATGCCCATGGCCAATGA
TTGAGAAATTACCTTGTGCTGCCTTGACTGACCGAGAATGCACTTGCCCACCTGGCATGTTCCAGTCTAACGCTA
CCTGTGCCCCCATACGGTGTGCTCTGTGGGTGCGGAAGAAAGGGACAGAGACTGAGGATGTGCGGT
GTAAGCAGTGTGCTCGGGGTACCTTCTCAGATGTGCCTTCTAGTGTGATGAAATGCAAAGCATACACAGACTGTC
TGAGTCAGAACCTGGTGGTGATCAAGCCGGGGACCAAGGAGACAGACAACGTCTGTGGCACACTCCCGTCTTCT
CCAGCTCCACCTCACCTTCCCCCTGGCACAGCCATCTTCCACGCCCTGAGCACATGGAAACCCATGAAGTCCCTT
CCTCCACTTATGTTCCCAAAGGCATGAACTCAACAGAATCCAATCTTCTGCCTCTGTTAGACCAAAGGTACTGA
GTAGCATCCAGGAAGGGACAGTCCCTGACAACACAAGCTCAGCAAGGGGGAGGAAGACGTGAACAAGACCCCTCC
CAAACCTTCAGGTAGTCAACCACCAGCAAGGCCCCCACCACAGACACATCCTGAAGCTGCTGCCGTCCATGGAGG
CCACTGGGGGCGAGAAGTCCAGCACGCCCATCAAGGGCCCCAAGAGGGGACATCCTAGACAGAACCTACACAAGC
ATTTTGACATCAATGAGCATTTGCCCTGGATGATTGTGCTTTTCTGCTGCTGGTGCTTGTGGTGATTGTGGTGT
GCAGTATCCGGAAGTCTGAGGACTCTGAAAAAGGGGCCCCGGCAGGATCCAGTGCCATTGTGGAAAAGGCAG
GGCTGAAGAAATCCATGACTCCAACCCAGAACCGGGAGAAATGGATCTACTACTGCAATGGCCATGGTATCGATA
TCTGAAGCTTGTAGCAGCCCAAGTGGGAAGCCAGTGGAAAGATATCTATCAGTTTCTTTGCAATGCCAGTGAGA
GGGAGGTGTGTGCTTCTCCAATGGGTACACAGCCGACCACGAGCGGGCCTACGCAGCTCTGCAGCACTGGACCA
TCCGGGGCCCCGAGGCCAGCCTCGCCAGCTAATTAGCGCCCTGCGCCAGCACCGGAGAAACGATGTTGTGGAGA
AGATTGCTGGGCTGATGGAAGACACCACCCAGCTGGAACCTGACAACTAGCTCTCCCGATGAGCCCCAGCCCCG
TTAGCCCGAGCCCCATCCCCAGCCCCAACGCGAACTTGAGAATTCGGCTCTCCTGACGGTGGAGCCTTCCCCAC
AGGACAAGAACAAGGGCTTCTTCGTGGATGAGTCGGAGCCCTTCTCCGCTGTGACTCTACATCCAGCGGCTCCT
CCGCGCTGAGCAGGAACGGTTCCTTTATTACCAAAGAAAAGAGGACACAGTGTGCGGCAGGTACGCTGGACC
CCTGTGACTTGCAGCCTATCTTTGATGACATGCTCCACTTTCTAAATCCTGAGGAGCTGCGGGTGATTGAAGAGA
TTCCCCAGGCTGAGGACAACTAGACCGGCTATTTCGAAATTATTGGAGTCAAGAGCCAGGAAGCCAGCCAGACC
TCCTGGACTCTGTTTATAGCCATCTTCTGACCTGCTGTAGAACATAGGGATACTGCATTCTGGAAATTACTCAA
TTTAGTGGCAGGGTGGTTTTTAATTTCTTCTGTTTCTGATTTTGTGTTTGGGGTGTGTGTGTGTTTGTG
TGTGTGTGTGTGTGTGTGTGTGTGTTAACAGAGAATATGGCCAGTGCTTGAGTTCTTTCTCCTTCTCTCT
CTCTCTTTTTTTTTTAAATAACTCTTCTGGGAAGTTGGTTTATAAGCCTTTGCCAGGTGTAACGTGTGTGAAATA
CCCACCACTAAAGTTTTTTAAGTTCCATATTTCTCCATTTGCGCTTCTTATGTATTTTCAAGATTATCTGTGC
ACTTTAAATTTACTTAACTTACCATAAATGCAGTGTGACTTTTCCACACACTGGATTGTGAGGCTCTTAACTTC
TTAAAAGTATAATGGCATCTTGTGAATCCTATAAGCAGTCTTATGTCTCTTAACATTACACCTACTTTTTTAAA
AACAAATATTATTACTATTTTTATTATTGTTTGTCTTTTATAAATTTTCTTAAAGATTAAAGAAATTTAAGACCC
CATTGAGTTACTGTAATGCAATTCAACTTTGAGTTATCTTTAAATATGTCTTGTATAGTTTATATTCATGGCTG
AAACTTGACCACACTATTGCTGATTGTATGGTTTTACCTGGACACCGTGTAGAATGCTTGATTACTTGTACTCT
TCTTATGCTAATATGCTCTGGGCTGGAGAAATGAAATCCTCAAGCCATCAGGATTTGCTATTTAAGTGGCTTGAC
AACTGGGCCACCAAAGAACTTGAACCTTACCTTTTAGGATTGAGCTGTTCTGGAACACATTGCTGCACCTTTGGA
AAGTCAAAATCAAGTGCCAGTGGCGCCCTTTCCATAGAGAAATTTGCCAGCTTGTCTTTAAAAGATGTCTTGT
TTTATATACATAATCAATAGGTCCATCTGCTCTCAAGCCCTTGGTCTGTTGGGATTCTTACCAATTACT
TTAATTTAAAATGGCTGCAACTGTAGAACCCTTGTCTGATATATTGCAACTATGCTCCATTACAAATGTAC
CTTCTAATGCTCAGTTGCCAGTTCCATGCAAGGTGGCGTGGACTCCCTTTGTGTGGGTGGGGTTGTGGGTA
GTGGTGAAGGACCGATATCAGAAAAATGCCCTTCAAGTGTACTAATTTATTAATAAACATTAGGTGTTGTAAAA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1871

MGTSPSSSTALASCSRIARRATATMIAGSLLLLGFLSTTTAQPEQKASNLIGTYRHVDRATGQVLTCDKCPAGTY
VSEHCTNTSLRVCSSCPVGTFTRHENGIEKCHDCSQPCPWPMEKLPAAALTDRECTCPFGMFQSNATCAPHTVC
PVGWGVRRKGTETEDVRCKQCARGTFSDVPSSVMKCKAYTDCLSQNLVVIKPGTKETDNVCGTLPFSFSSTSPSP
GTAIFPRPEHMETHEVPSSTYVPKGMNSTESNSSASVRPKVLSSIQEGTVPDNTSSARGKEDVNKTLPLNLQVNVH
QQGPHHRHILKLLPSMEATGGEKSSTPIKGPKRGHPRQNLHKKHFDINEHLPWMIVLFLLLVLVVIVVCSIRKSSR
TLKKGPRQDPSAIVEKAGLKKSMTPQNREKWIYYCNGHGIDILKLVAQVGSQWKDIYQFLCNASEREVAAFSN
GYTADHERAYAALQHWITIRGPEASLAQLISALRQHRNDVVEKIRGLMEDTTQLETDKLALPMSPLSPSPSPSPS
PNAKLENSALLTVEPSPQDKNKGFFVDESEPLLRCDSTSSGSSALSRNGSFITKEKKDTVLRQVRLDPCDLQPIF
DDMLHFLNPEELRVIEEIPQAEDKLDRLFEEIGVKSQEASQTLLDSVYSHLPDLL

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FIGURE 1872

GCGGGCACTTCCGCTGGCCGCTGGCTCGCTGGCCGCTCCTGGAGGCGGCGGGAGCGCAGGGGGCGCGCGGC
CCGGGGACTCGCATTCCCCGGTTCCCCCTCCACCCACGCGGCCTGGACCATGGACGCCAGATGGTGGGCAGTGG
TGGTGCTGGCTGCGTTCCCCCTCCCTAGGGGCAGGTGGGGAGACTCCCGAAGCCCTCCGGAGTCATGGACCCAGC
TATGGTTCTTCCGATTGTGGTGAATGCTGCTGGCTATGCCAGCTTTATGGTACCTGGCTACCTCCTGGTGCAGT
ACTTCAGGCGGAAGAACTACCTGGAGACCGGTAGGGGCCTCTGCTTTCCCTGGTGAAAGCTTGTGTGTTTGGCA
ATGAGCCCAAGGCCTCTGATGAGGTTCCTTGGCGCCCCGAACAGAGGCGGCAGAGACCACCCCGATGTGGCAGG
CCCTGAAGCTGCTCTTCTGTGCCACAGGGCTCCAGGTGTCTTATCTGACTTGGGGTGTGCTGCAGGAAAGAGTGA
TGACCCGCAGCTATGGGGCCACAGCCACATCACCGGGTGAGCGCTTTACGGACTCGCAGTTTCTGGTGCTAATGA
ACCGAGTGCTGGCACTGATTGTGGCTGGCCTCTCCTGTGTCTCTGCAAGCAGCCCCGGCATGGGGCACCCATGT
ACCGGTACTCCTTTGCCAGCCTGTCCAATGTGCTTAGCAGCTGGTGCCAATACGAAGCTCTTAAGTTCGTACAGCT
TCCCCACCCAGGTGTG6CCAAGGCCTCTAAGGTGATCCCTGTCTATGCTGATGGGAAAGCTTGTGTCTCGGCGCA
GCTACGAACACTGGGAGTACCTGACAGCCACCCTCATCTCCATTGGGGTCAGCATGTTTCTGCTATCCAGCGGAC
CAGAGCCCCGCAGCTCCCCAGCCACCACACTCTCAGGCCTCATCTTACTGGCAGGTTATATTGCTTTTGACAGCT
TCACCTCAAACCTGGCAGGATGCCCTGTTTGCCCTATAAGATGTCATCGGTGCAGATGATGTTTGGGGTCAATTTCT
TCTCCTGCCTCTTTCACAGTGGGCTCACTGCTAGAACAGGGGGCCCTACTGGAGGGAACCCGCTTCATGGGGCGAC
ACAGTGAGTTTGCIGCCCATGCCCTGCTACTCTCCATCTGCTCCGCATGTGGCCAGCTCTTCATCTTTTACACCA
TTGGGCAGTTTGGGGCTGCCGCTTTACCATCATCATGACCCTCCGCCAGGCCTTTGCCATCCTTCTTTCTGCC
TTCTCTATGGCCACACTGTCACTGTGGTGGGAGGGCTGGGGGTGGCTGTGGTCTTTGCTGCCCTCCTGCTCAGAG
TCTACGCGCGGGGCCGTCTAAAGCAACGGGGAAAGAAGGCTGTGCCTGTTGAGTCTCCTGTGCAGAAAGGTTTGAG
GGTGAAAGGGCCTGAGGGGTGAAGTGAATAGGACCCTCCACCATCCCTTCTGCTGTAACCTCTGAGGGAGC
TGGCTGAAAGGGCAAATGCAGGTGTTTCTCAGTATCACAGACCAGCTCTGCAGCAGGGGATTGGGGAGCCAG
GAGGCAGCCTTCCCTTTTGCCCTTAAGTCACCCATCTTCCAGTAAGCAGTTTATTCTGAGCCCCGGGGGTAGACAG
TCTCAGTGAGGGGTTTGGGGAGTTTGGGGTCAAGAGAGCATAGGTAGGTTCCAGTTACTCTTCCACAAGTTC
CCTTAAGTCTTGCCCTAGCTGTGCTCTGCCACCTTCCAGACTCACTCCCCTCTGCAAAATACCTGCATTTCTTACC
CTGGTGAGAAAAGCACAAGCGGTGTAGGCTCCAATGCTGCTTTCCAGGAGGGTGAAGATGGTGTGTGCTGAGG
AAAGGGGATGCAGAGCCCTGCCAGCACCAACCTCCTATGCTCCTGGATCCCTAGGCTCTGTTCATGAGCCT
GTTGCAGGTTTGGTACTTTAGAAATGTAACTTTTGTCTTATAATTTTATTTTATTAAATTAAATTACTGCA

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FIGURE 1873

MDARWWAVVVLAAFP SLGAGGETPEAPPESWTQLWFFRFV VNAAGYASFMVPGYLLVQYFRRKNYLETGRGLCFP
LVKACVFGNEPKASDEVPLAPRTEAAETTPMWQALKLLFCATGLQVS YLTWGV LQERVMTRS YGATATSPGERFT
DSQFLVLMNRVLALIVAGLS CVLCKQPRHGAPMYRYSFASLS NVLSSWCQYEALKFVSFPTQVLAKASKVIPVML
MGKLVSRRSYEHWEYLTATLISIGVSMFLLSSGPEPRSSPATTLSGLILLAGYIAFDSFTSNWQDALFAYKMSSV
QMMFGVNFFSCLFTVGSLL EQGALLEGTRFMGRHSEFAAHALLSICSACGQLFIFYTIGQFGAAVFTIIMTLRQ
AFAILLSCLLYGHTVTVVGGLGVAVVFAALLLRVYARGRLKQRGKKAVPVESPVQKV

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FIGURE 1874

CTCCGGCGCAGTGTGGGACTGTCTGGGTATCGGAAAGCAAGCCTACGTTGCTCACTATTACGTATAATCCTTTT
CTTTTCAAGATGCCTGAGGAAGTGCACCATGGAGAGGAGGAGGTGGAGACTTTTGCCTTTCAGGCAGAAATTGCC
CAACTCATGTCCCTCATCATCAATACCTTCTATTCCAACAAGGAGATTTTCCCTTCGGGAGTTGATCTCTAATGCT
TCTGATGCCTTGGACAAGATTGCTATGAGAGCCTGACAGACCCTTCGAAGTTGGACAGTGGTAAAGAGCTGAAA
ATTGACATCATCCCCAACCTCAGGAACGTACCCTGACTTTGGTAGACACAGGCATTGGCATGACCAAAGCTGAT
CTCATAAATAATTTGGGAACCATTGCCAAGTCTGGTACTAAAGCATTTCATGGAGGCTCTTCAGGCTGGTGCAGAC
ATCTCCATGATTGGGCAGTTTGGTGTGGCTTTTATTCTGCCTACTTGGTGGCAGAGAAAGTGGTTGTGATCACA
AAGCACAACGATGATGAACAGTATGCTTGGGAGTCTTCTGCTGGAGGTTCCCTCACTGTGCGTGCTGACCATGGT
GAGCCCATTGGCAGGGGTACCAAAGTGATCCTCCATCTTAAAGAAGATCAGACAGAGTACCTAGAAGAGAGGCGG
GTCAAAGAAGTAGTGAAGAAGCATTCTCAGTTCATAGGCTATCCCATCACCCTTTATTTGGAGAAGGAACGAGAG
AAGGAAATTAGTGATGATGAGGCAGAGGAAGAGAAAGGTGAGAAAGAAGAGGAAGATAAAGATGATGAAGAAAA
CCCAAGATCGAAGATGTGGGTTTCAGATGAGGAGGATGACAGCGGTAAGGATAAGAAGAAGAACTAAGAAGATC
AAAGAGAAATACATTGATCAGGAAGAACTAAACAAGACCAAGCCTATTTGGACCAGAAACCCTGATGACATCACC
CAAGAGGAGTATGGAGAATTCTACAAGAGCCTCACTAATGACTGGGAAGACCACTTGGCAGTCAAGCACTTTTCT
GTAGAAGGTGAGTTGGAATTCAGGGCATTGCTATTTATCTCGTCGGGCTCCCTTTGACCTTTTGGAGAACAAG
AAGAAAAAGAACAACATCAAACCTCTATGTCCGCCGTGTGTTTCATCATGGACAGCTGTGATGAGTTGATACCAGAG
TATCTCAATTTTATCCGTGGTGTGGTTGACTCTGAGGATCTGCCCCCTGAACATCTCCCGAGAAATGCTCCAGCAG
AGCAAAATCTTGAAGTCATTGCAAAAACATTGTTAAGAAGTGCCTTGAGCTCTTCTCTGAGCTGGCAGAAGAC
AAGGAGAATTACAAGAAATCTATGAGGCATTCTCTAAAAATCTCAAGCTTGAATCCACGAAGACTCCACTAAC
CGCCGCCGCTGTCTGAGCTGCTGCGCTATCATACCTCCAGTCTGGAGATGAGATGACATCTCTGTGAGAGTAT
GTTTCTCGCATGAAGGAGACACAGAAGTCCATCTATTACATCACTGGTGAGAGCAAAGAGCAGGTGGCCAACTCA
GCTTTTGTGGAGCGAGTGCAGGAAACGGGGCTTCGAGGTGGTATATATGACCGAGCCCATTGACGAGTACTGTGTG
CAGCAGCTCAAGGAATTTGATGGGAAGAGCCTGGTCTCAGTTACCAAGGAGGCTCTGGAGCTGCCTGAGGATGAG
GAGGAGAAGAAGAAGATGGAAGAGAGCAAGGCAAAGTTTGAGAACCTCTGCAAGCTCATGAAAGAAATCTTAGAT
AAGAAGGTTGAGAAGGTGACAATCTCCAATAGACTTGTGTCTTCACCTTGCTGCATTGTGACCAGCACCTACGGC
TGGACAGCCAATATGGAGCGGATCATGAAAGCCCAGGCACTTCGGGACAACCTCCACCATGGGCTATATGATGGCC
AAAAAGCACCTGGAGATCAACCCTGACCACCCCATTTGTGGAGACGCTGCGGCAGAAGGCTGAGGCCGACAAGAAT
GATAAGGCAGTTAAGGACCTGGTGGTGTGCTGCTTTGAAACCGCCCTGCTATCTTCTGGCTTTTCCCTTGAGGAT
CCCCAGACCCACTCCAACCGCATCTATCGCATGATCAAGCTAGGTCTAGGTATGATGAAGATGAAGTGGCAGCA
GAGGAACCCAATGCTGCAGTTCTGATGAGATCCCCCTCTCGAGGGCGATGAGGATGCGTCTCGCATGGAAGAA
GTCGATTAGGTTAGGAGTTCATAGTTGGAAAACCTGTGCCCTTGATAGTGTCCCCATGGGCTCCCACTGCAGCC
TCGAGTGGCCCTGTCCACCTGGCTCCCCCTGCTGGTGTCTAGTGTTTTTTTTCCCTCTCTGTCTTGTGTGAA
GGCAGTAAACTAAGGGTGTCAAGCCCCATTCCTCTCTACTCTTGACAGCAGGATTGGATGTTGTGTATTGTGGT
TTATTTTATTTTCTTCAATTTTGTCTGAAATTAAAGTATGCAAAATAAAGAATATGCCGTTTTAAAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1875

MPEEVHHGEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNASDALDKIRYESLTDPSKLD SGKELKIDI
IPNPQERTLTTLVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVVVITKHN
DDEQYAWESSAGGSFTVRADHGEPIGRGTKVILHLKEDQTEYLEERRVKEVVKKHSQFIGYPITLYLEKEREKEI
SDDEAEEEEKGEKEEEDKDDEEKPKIEDVGSDEEDDSGDKKKKTKKIKEKYIDQEELNKTKPIWTRNPDDITQEE
YGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFIPRRAPFDLFENKKKKNNIKLYVRRVFIMDSCDELIPEYLN
FIRGVVDSEDLP LNISREMLQQSKILKVIRKNIVKKCLELFSELAEDKENYKKFYEAFSKNLKLGIHEDSTNRRR
LSELLRYHTSQSGDEMTSLSEYVSRMKETQKSIYYITGESKEQVANS AFVERVRKRGFEVVYMT EPIDEYCVQQL
KEFDGKSLVSVTKEGLELPEDEEEKKMEESKAKFENLCKLMKEILDKKVEKVTISNRLVSSPCCIVTSTYGWTA
NMERIMKAQALRDNSTMGYMAKKHLEINPDHPIVETL RQKAEADKNDKAVKDLVVLLFETALLSSGFSLEDPQT
HSNRIYRMIKLGLGIDEDEVAAEEPNAAVPDEIPPLEGDEDASRMEEVD

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FIGURE 1876

GGGCTGCGCTCTCCAGCTGTGGCTATGGCCCCAGCCCCGAGATGAGGAGGGAGAGAACTAGGGGCCCCGAGGCCT
GGGAATTTCCGTCCCCACCAAGTCCGGATGCTCACTCCAAAGTCTCAGCAGGCCCCCTGAGGGAGGGAGCTGTCA
GCCAGGGAAAACCGAGAACACCATCACCATGACAACCAGTCACCAGCCTCAGGACAGATACAAAGCTGTCTGGCT
TATCTTCTTCATGCTGGGTCTGGGAACGCTGCTCCCGTGGGAATTTTTTCATGACGGCCACTCAGTATTTACAAA
CCGCTTGGACATGTCCAGAAATGTGTCTTGGTCACTGCTGAACTGAGCAAGGACGCCCAGGCGTCAGCCGCCCC
TGCAGCACCCCTTGCCTGAGCGGAACCTCTCTCAGTGCCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCC
CCTGCTGTTATTACCTACCTCAACTCCTTCTGTCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGCAGCCT
GGTGGCCATCCTGCTGGTGTCTTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTTCTTTGT
CATCACCATGATCAAGATCGTGCTCATTAAATTCATTGGTGCCATCCTGCAGGGCAGCCTGTTTGGTCTGGCTGG
CCTTCTGCCTGCCAGCTACACGGCCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTTCTTTGCCTCCGTGGCCAT
GATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCCTTCGGCTACTTTATCACAGCCTGTGCTGTTAT
CATTTTGACCATCATCTGTTACCTGGGCCTGCCCCGCTTGAATTTCTACCGCTACTACCAGCAGCTCAAGCTTGA
AGGACCCGGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGAGGAGCCAAGAGCAGGCAAAGAGGAATC
TGGAGTTTCAGTCTCCAACCTCTCAGCCCACCAATGAAAGCCACTCTATCAAAGCCATCCTGAAAAATATCTCAGT
CCTGGCTTTCTCTGTCTGCTTCATCTTCACTATCACCATTGGGATGTTTCCAGCCGTGACTGTTGAGGTCAAGTC
CAGCATCGCAGGCAGCAGCACCTGGGAACGTTACTTCATTCTGTGTCTGTTCTTGACTTTCAATATCTTTGA
CTGTTTGGGCCGGAGCCTCACAGCTGTATTATGTGGCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGTCT
GGCCCGGCTGGTGTGTTGTGCCACTGCTGCTGTGTGCAACATTAAGCCCCGCGCTACCTGACTGTGGTCTTCGA
GCACGATGCCTGGTTCATCTTCTTCATGGCTGCCTTTGCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTG
CTTCGGGCCCAAGAAAGTGAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTTCTGTGTCTGGG
TCTGGCACTGGGGGCTGTTTCTCCTTCTGTTCGGGCAATTGTGTGACAAAGGATGGACAGAAGGACTGCCTG
CCTCCCTCCCTGTCTGCCCTCCTGCCCCCTTCTTCTGCCAGGGGTGATCCTGAGTGGTCTGGCGGTTTTTCTTCT
AACTGACTTCTGCTTTCCACGGCGTGTGCTGGGCCCGGATCTCCAGGCCCTGGGGAGGGAGCCTCTGGACGGACA
GTGGGGACATTGTGGGTTTGGGGCTCAGAGTCGAGGGACGGGGTGTAGCCTCGGCATTGTGCTTGTGATTTCTCCAC
TCTTGGCTCTGACTGATCCCTGCTTGTGCAGGCCAGTGGAGGCTCTTGGGCTTGGAGAACACGTGTGTCTCTGTG
TATGTGTCTGTGTGTCTGCGTCCGTGTCTGTGCACTGTCTGCCTGTCTGGGGTGGCTAGGAGCTGGGTCTGAC
CGTTGTATGGTTTGACCTGATATACTCCATTCTCCCCCTGCGCCTCCTCCTCTGTGTTCTCTCCATGTCCCCCTCC
CAACTCCCCATGCCCAGTTCTTACCCATCATGCACCCTGTACAGTTGCCACGTTACTGCCTTTTTTAAAAATATA
TTTGACAGAAACCAGGTGCCTTCAGAGGCTCTCTGATTTAAATAAACCTTCTTGTTTTTT

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FIGURE 1877

CACATGCTGCACGCGCATCTCGCCCCAGGGGCACTGCCTGGAAGATTCAGGAGCCTGGGCGGCCTTCGCTTACT
CTCACCTGCTTCTGAGTTGCCCAGGAGACCACTGGCAGATGTCCCGGCGAAGAGAAGAGACACATTGTTGGAAGA
AGCAGCCCATGACAGCTCCCTTCCCTGGGACTCGCCCTCATCCTCTTCTGCTCCCTTCCCTGGGGTGCAGCCTA
AAAGGACCTATGTCCTCACACCATTGAAACCACTAGTTCTGTCCCCCAGGAGACCTGGTTGTGTGTGTGTGAGT
GGTTGACCTTCCATCCCTGGTCCTTCCCTTCCCTTCCCGAGGCACAGAGAGACAGGGCAGGATCCACGTGC
CCATTGTGGAGGCAGAGAAAAGAGAAAGTGTTTTATATACGGTACTTATTTAATATCCCTTTTAAATTAGAAATT
AAAACAGTTAATTTAATTAAAGAGTAGGGTTTTTTTTTCAGTATTCTTGTTAATATTTAATTCAACTATTTATG
AGATGTATCTTTTGCTCTCTTGGCTCTCTTATTTGTACCGGTTTTTGTATATTTGAACAGATATTTAATTTTGC
TAACACTCAGCTCTGCCCTCCCCGATCCCTGGCTCCCCAGCACACATTCCTTTGAAATAAGGTTTCAATATACA
TCTACATACTATATATATATTTGGCAACTTGTATTTGTGTGTATATATATATATATA

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FIGURE 1878

GC GCGAGCCGCGCCGGCCCCGGTCGGGCCTCCGAAACCATGAACTTTCTGCTGTCTTGGGTGCATTGGAGCCTTG
CCTTGCTGCTCTACCTCCACCATGCCAAGTGGTCCCAGGCTGCACCCATGGCAGAAGGAGGAGGGCAGAATCATC
ACGAAGTGGTGAAGTTCATGGATGTCTATCAGCGCAGCTACTGCCATCCAATCGAGACCCTGGTGGACATCTTCC
AGGAGTACCCTGATGAGATCGAGTACATCTTCAAGCCATCCTGTGTGCCCCCTGATGCGATGCGGGGGCTGCTGCA
ATGACGAGGGCCTGGAGTGTGTGCCCCTGAGGAGTCCAACATCACCATGCAGATTATGCGGATCAAACCTCACC
AAGGCCAGCACATAGGAGAGATGAGCTTCCTACAGCACAAACAAATGTGAATGCAGACCAAAGAAAGATAGAGCAA
GACAAGAAAAAAATCAGTTCGAGGAAAGGGAAAGGGGCAAAAACGAAAGCGCAAGAAATCCCGGTATAAGTCCT
GGAGCGTGACGTTGGTGCCCGCTGCTGTCTAATGCCCTGGAGCCTCCCTGGCCCCCATCCCTGTGGGCCTTGCT
CAGAGCGGAGAAAGCATTGTTTGTACAAGATCCGCAGACGTGTAAATGTTCTGCAAAAACACAGACTCGCGTT
GCAAGGCGAGGCAGCTTGAGTTAAACGAACGTACTTGACAGATGTGACAAGCCGAGGCGGTGAGCCGGGCAGGAGG
AAGGAGCCTCCCTCAGGGTTTCGGGAACCAGATCT

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FIGURE 1879

TACCCCTTCATGCTCCAGTGCACCCCAGGCTTCGTGGCCAGCCTGGGAAACTGTCTCTACCCCTGGTCTCCCTTCA
GATCAGCTTCTAGAAATGTTTCGTGGCTACAGTGGCAGCACTGTTTTTCCATGATGCAAGCAGTTTGCCCTCTT
GGGCGGGGTTATCAGTGGCTGGCAGGGCTGGCACAGCGTGTCGCCCCACTGCCACCTGTGGGTTCCAGGAGGGCC
CAGCCCCCTGTGCTGATGCCCCACCCTTCTCAGCTCATGTCTGGGGAAGAGGACTGGCAGGGGAAAGGTGCCTC
CTCCTGAAAGGTGCCTCCTCTGTTTTTGCTAATATAGGCTTGGGAACACTTTGATGTCAGCTAATTCTGACTCC
TTTACTTACTAGCTGTGCGGCCCTGGGGCAACTTACTTAGCCTCTTTGAGCCTCCTGTTCCCCATCTGTAAAAATG
GAATCTCAATAGTGTCTAATAGTACCATGTGGAGAAACTTGTGTGAAATGATAGCTGTGGACTACTGTACACAGT
ACTCAGGATGTAGTAAGTGCTCAATAAACAGCTGTTGGTATGGTTGACGTTATGGTAGTGGTTGTGGGGAGGACG
TAGGAAACTGGAGACTAGCTTGGCAAAGCTGGCTCTTCTCCTTTTAGGGAAAGCTTAGAGCATCCCCATGGGGT
ATACCCATACTCAGACTGTCTCTGGCATCGAGGTTGGCCCAGGATTCAGTTCAGCTGTCACAGTGAGGTGGCGG
GATCAGATGTGGCAGGCCATGTCCCTTGGAACTTGAGTACATCGTGTGATCTCTGGAATGAAAACAGGCCTTCAC
CAGTGTTGATGGTGGAAAGCTTAGGGAAGTGCTTCAAACACAGTAGGAGGGACTTACGTTAGATTTTGGAAAGAC
TTGCCTGATTTCGGAAGCTCCAAAGAGTGGCATTACAGAGCTGGGTGGAGAGAGGGGCTAGCCATCTTTTGTGTCG
CCCACCGGGCTCATGTGTCTCGCCTCTCATGCAGTGGTGAAGTTTCATGGATGTCTATCAGCGCAGCTACTGCCA
TCCAATCGAGACCTTGGTGGACATCTTCCAGGAGTACCCTGATGAGATCGAGTACATCTTCAAGCCATCCTGTGT
GCCCCGTGATGCGATGCGGGGGCTGCTGCAATGACGAGGSCCTGGAGTGTGTGCCCCACTGAGGAGTCCAACATCAC
CATGCAGGTGGGCATCTTTGGGAAGTGGGGCAAGGGGGGATAGGGAGGGGGGTAACACTTTGGGAACAGGTGGT
CCCAGGTGCTTTCTTGGCTAGATTTGCCCTGTCTGGCTCCTGCCCCCTGAGTTGCACAGGGGAGGTATGGTGGGGT
CTTGCCCTTCTGTGGAGAAGATGCTTCATTCCCAGCCCAGGTTCCCAGCAAGCCCCAACCATCTCCTTCTCCCTGA
TGTTTGCCCATGGGCTCAGGAGGGGACAGATGGATGCCCTGTGTCAGGAGCCCCCTCTCTCCCTCTCTTGGAGAGAG
TCCTGAGTGCCCCCCTTCTTGGGGGCTTGTGTTGGGAAGCTGGATGAGCCTGGTCCATGGAGAGTTTAAAAAGT
CTTTTGGTGTTACCTGGTAATGGGGCACATCTCAGCCCAGATAGGGTGGGAGGGAGCTGTGAAACACAGGGAGGG
GGTTGCTTTCGGGTATCTACTAGGAGTCAGGGTGAAGCCTAGAGAGGATGAAAGAAGGGGAGGGGATGGGGAGTG
GTAAGAACCTAGGATTTGAATTCCCAGCCTGGCCAACCCTTGACAGCCATGTCTTGGCCTCAAGTGGAAACAAGGGC
TCCTTGAGGCCAGCAGGGTGGGGGAGTTGGGGTGGGCTGAGCCTCTTTCCTGCTAGAGCTCTTGGTCCCTCCCT
GCCCTCACCCATCCCTGCTCTGCAGAACCCCTGGGTGCTGAGTGGCAGGAGCCCCAGGGTTGTCCCATCTGG
GTATGGCTGGCTGGGTCACTAACCTCTGTGATCTGCTTCCCTTCCAGATTATGCGGATCAAACCTCACCAA
GGCCAGCACATAGGAGAGATGAGCTTCTACAGCACAACTGTGAATGCAGGTGAGGATGTAGTCACGGATTC
ATTATCAGCAAGTGGCTGCAGGGTGCCTGATCTGTGCCAGGGTTAAGCATGCTGTACTTTTTGGCCCCCGTCCAG
CTTCCCGCTATGTGACCTTTGGCATTCTTCAATGTGCCTCAGTTTCTACATCTGTAAATGGGCACAATAGT
AGTATACTTCATAGCATTGTTATAATGATTAAACAAGTTATATATGAAAAGATTAAACAGTGTTGCTCCAT

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FIGURE 1880

AGGTTTTTGAAGATGGCGGCCCTCAAGGCTCTGGTGTCCGGCTGTGGGCGGCTTCTCCGTGGGCTACTAGCGGGC
CCGGCAGCGACCAGCTGGTCTCGGCTTCCAGCTCGCGGGTTCAGGGAAGTGGTGGAGACCCAAGAAGGGAAGACA
ACTATAATTGAAGGCCGTATCACAGCGACTCCCAAGGAGAGTCCAAATCCTCCTAACCCTCTGGCCAGTGGCCC
ATCTGCCGTTGGAACCTGAAGCACAAAGTATAACTATGACGATGTTCTGCTGCTTAGCCAGTTCATCCGGCCTCAT
GGAGGCATGCTGCCCCGAAAGATCACAGGCCTATGCCAGGAAGAACACCGCAAGATCGAGGAGTGTGTGAAGATG
GCCCACCGAGCAGGTCTATTACCAATCACAGGCCTCGGCTTCTGAAGGAGTTGTTCCGAAGAGCAAACCCCAA
CTCAACCGGTACCTGACGCGCTGGGCTCCTGGCTCCGTCAAGCCCATCTACAAAAAAGGCCCCCGCTGGAACAGG
GTGCGCATGCCCCGTGGGGTCACCCCTTCTGAGGGACAATGTCTGCTACTCAAGAACACCTTGGAAGCTGTATCAC
TGACAGAGAGCAGTGTCTCCAGAGTTCCTCCTGCACCTGTGCTGGGGAGTAGGAGGCCCCACTCACAAGCCCTTGG
CCACAACCTATACTCCTGTCCCACCCCACCACGATGGCCTGGTCCCTCCAACATGCATGGACAGGGGACAGTGGGA
CTAACTTCAGTACCCCTTGGCCTGCACAGTAGCAATGCTGGGAGCTAGAGGCAGGCAGGGCAGTTGGGTCCCTTGC
CAGCTGCTATGGGGCTTAGGCCATGCTCAGTGCTGGGGACAGGAGTTTGGCCAACGCAGTGTCAAACTGGGT
TCATGGGCTTACCCATTGGGTGTGCGCTCACTGCTTGGGAAGTGCAGGGGGTCTGGGCACATTGCCAGCTGGGT
GCTGAGCATTGAGTCACTGATCTCTTGATGAGGGCCAATGAGTCAATTGAATTCATGGGCCAAACAGGTCCCAT
CCTCTTCATG

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FIGURE 1881

MAALKALVSGCGRLLRGLLAGPAATSWRLPARGFREVVETQEGKTTIEGRITATPKESPNNPPNSGQCPICRW
NLKHKYNYDDVLLLSQFIRPHGGMLPRKITGLCQEEHRKIEECVKMAHRAGLLPNHRPRLPEGVVPKSKPQLNRY
LTRWAPGSVKPIYKKGPRWNRVRMPVGSPLL RDNV CYSRTPWKLYH

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FIGURE 1882A

AGCTGTCGTGCCTCGTGGTCCCGGACTGCAGTGGTGTGCGCTCTCGGCGCGTGGCGCTAGGCATGGCGATGGAT
CAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGGTGACGGTCATGATGGACCCCACTCCACCCAGCGCTAC
CGGCTGGAAGCCCTCAAGTTTTGTGAGGAGTTTAAAGAAAAGTGTCTATCTGTGTCCCTGTGGCTTGAGGTTG
GCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTGGCCTTCAGATCCTGGAACACGTTGTCAAGTTTCGGTGG
AACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGAACAGTGTATGGAGCTGATTGCAAATGGAACATTGAAC
ATTTTGAAGAGGAGAACCATATTAAAGATGCTCTGTCTCGAATTGTAGTGGAAATGATCAAGCGAGAGTGGCCA
CAGCATTGGCCTGACATGCTAATAGAATTGGACACTCTTTCCAAACAAGGGGAAACACAGACAGAATTGGTGATG
TTTATCCTTTTGGGACTGGCAGAGGATGTAGTGACTTTTCAGACACTTCCCCCTCAAAGAAGAAGGGACATCCAG
CAAACATTAAACCCAGAACATGGAAGGATCTTCAGTTTTCTGCTTAACACACTTCAAGAAAATGTAAACAAGTAT
CAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGGCGCAAGCAAACCTGTCGAGTAGGAGTTGCAGCACTGAAT
ACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTCACATCACTGCTGAAAACCTGTAACTCCTGGAGATACTG
TGTTTGCTGTTGAATGAACAGGAACCTCAGTTGGGAGCCGCTGAGTGTCTTCTCATTGCAGTCAGCAGAAAAGGC
AAGTTGAAGACCGGAAGCCCTTGATGGTCTTATTTGGAGATGTTGCCATGCATTATATACTCTCCGCCGCACAG
ACTGCTGATGGAGGAGGTTTGGTAGAAAAACACTACGCTTTTCTGAAGAGGCTCTGTCAGGTGTTGTGTGCGCTG
GGCAATCAGCTGTGTGATTGCTGGGTGCAGATTCTGATGTAGAAACACCATCAAACCTTTGGAAAATACCTGGAA
TCTTTCTTGCTTTCACAACCCATCCAAGTCAGTTTCTACGCTCTTCAACTCAGATGACTTGGGGAGCCCTCTTC
AGGCATGAAATCCTGTCCCGTGATCCTTTGCTATTAGCAATAATACCAAAATATCTTCGTGCTTCCATGACTAAC
TTGGTCAAGATGGGCTTTCCTTCTAAACAGACAGCCCTAGCTGTGAATATTCTCGGTTTGATTTTGATAGCGAT
GAGGACTTCAATGCTTTCCTTCAACTCCTCCCGAGCACAAACAGGAGAGGTGATGAGGTTGGCATGTGCTTTGGAT
CCCAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAAAGTATCAACTATCAACTTTTCTTGATGCTGGTTCTGTG
AATCTTGTCTGCACTTGGAACTGGAGAAGGAAGCCTCTGTTCCGCTCTTCTCACCTTCATTTCGTGCACTGGGAA
GCCATGACTCTTTTTTGGAAAGTGTATACCCAGATGTTTGAACACTAAATAGAGAAGAAATTCCTGTTAAT
GATGGAATAGAGCTATTGCAGATGGTTCTGAACCTTGATACCAAGGATCCCCTCATCTGTCTGCGTCTTACT
AATGTCTCTGCACTCTTCCATTTGTACCTACAGACCAGAGTTCTTGCCCCAGGTCTTCTTAAGCTATTTTCA
TCTGTCACTTTTGAACTGTTGAAGAAAGTAAGGCCCCCAGAACCCGGGCAGTGAGGAATGTGAGGAGGCATGCT
TGTTCTCCATCATCAAGATGTGTGCTGACTACCCCGAGCTGTGCTGCCAATTTTGACATGCTTTATAACCAT
GTGAAGCAACTCTCTCCAATGAGCTACTCCTGACACAAATGGAGAAGTGTGCCCTCATGGAAGCCCTGGTTCTC
ATTAGCAACCAATTAAGAACTACGAGCGTCAGAAGGTGTTCTAGAGGAGCTGATGGCACCAGTGGCCAGCATC
TGGCTTTCTCAAGACATGCACAGAGTGTGTGATGCTTTTCAATGCGTATGTGGGTACAGATCAGAAG
AGCTGTGACCCAGGCTGGAGGATCCGTGTGGCTTAAACCGTGCACGAATGAGCTTTTGTGTATACAGCATTCTG
GGTGTGGTGAAACGAACCTTGTGCGCCACTGACCTAGAAAGGCCAAAGCTGGGGGATTTGTGGTGGGTTATACA
TCCAGTGGAAATCCAATCTTCCGTAACCCCTGCACAGAGCAGATTCTGAACTTCTTGACAAATTTGCTTGCCTT
ATAAGAACCACACAATACATTATATGCACCAGAAATGCTAGCCAAATGGCAGAGCCTTTCACCAAGGCTCTGGAT
ATGCTTGACGCGGAAAAATCTGTATATAGGATTACCTCAACCTCTCTTGGAACTCAATGACTCTCCTGTCTTC
AAAACCGTCTTGGAAAGAATGCAGCGTTTCTTCTCTACCTCTATGAAAACCTGTTTTCATATCCTAGGGAAGGCA
GGCCCTTCCATGCAGCAAGACTTCTATAGTGTGGAGGACCTTGCTACCCAGCTTCTCAGCTCAGCCCTTTGTCAAC
TTGAACAATATTCTGACTACCGACTCAGACCCATGCTTCATGTCTTTGTAAAGCCTCTGGTGCTCTTCTGTCCC
CCAGAGCACTATGAAGCCCTGGTATCCCCATCCTCGGACCTCTTTTACCTACCTCCATATGAGGCTTTTCTCAG
AAATGGCAAGTTATCAACCAAAGGAGCCTGCTGTGTGGAGAAGATGAGGCTGCAGATGAAAACCCAGAGTCTCAA
GAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCCGAGAAGTCATGGACCTAATCACGGTTTGCTGTGTTTCA
AAGAAGGGTGCTGACCACAGTAGTGCTCCCCAGCAGATGGAGACGATGAAGAAATGATGGCCACAGAGGTACC
CCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAATGTCTGATGAAGCATGAGGATGTTTGTACAGCGCTATTA
ATTACAGCCTTCAATTCCCTGGCCTGGAAAAGATACTCTGTCTGCCAGAGGACAACCTCACAGCTCTGCTGGCCT
CTCCTCAAACAAGTGTGTGACGGGACACTGCTCGCAGATGCAGTTACGTGGCTTTTACCAGTGTGCTGAAAGGC
TTACAGATGCACGGGCAGCAGACGGGTGCATGGCTTCCCTGGTCCATCTGGCCTTCCAGATATACGAGGCACTG
CGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGCAAATCCCTGAAATACAGAAGGACTCACTGGACCAGTTT
GACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGGCTGACAAGCGCCGAAAGGACCAATTCAAACGCCTCATT
GCTGGTTGCATTGGGAAACCTTGGGAGAGCAGTTCCGAAAAGAAGTTCACATTAAGAATCTTCCCTCACTTTTC

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FIGURE 1882B

AAAAAACAAGCCAATGCTGGAGACGGAGGTGCTGGACAATGATGGGGGTGGCCTGGCCACCATCTTTGAACCC
TGAATCAAGCTTTTGGGCAICCTTCCTCGGCCTTTCTTGTCATCTCTTCTTCCCTTTGTAGCCGATCTCTAGGC
CCTTCTTGCACTGCCACCTCACTTCCACCACTGTCAGCCTGGAAAGAGATCCAGGTCTGGAGCTGGAGAGAACA
GGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTATCAAGAAAGGGAGTTAGGGCTTAACTATTCTGTCTAG
ATGTCCAGATAGTTCCTATTCTACTTGAGATTGGCTTTTCCAAGAAAAGCTAGAGCAGAGCAGCCCTTCTCC
CACAAGCCCTCCACCCCCGTGCAGCCACATACCTGTACAGAATGGTAACTAAGGGTGCTGTGCCCAACCCTGCG
ACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCAACTACTTGTGCCAGAGTTTCTCTTGGACCACTCCAACCTCC
ACTGAGCCCTTTTGTGCTGGGCTGGCAGGAACTTTCCCCACTCCCTAAGGGGCATGTCTGGGTTAGGTGCTAA
GTGCTGAAGAGAAGTTGGTCAGTTCTCTCAACTTTGCTTTGGGCAAGAATCTGGTCACCTGATGGGATCCATGGT
ACAGGCTACTGCTAACTTTGGCACAGTATCAAGTATAGTACCTCCAAGGACCAGGGCTGGGAAGTCTTTAGTGCT
AACATCCCCCTTTAGAGTTTACACATCTTGCCCTTCCATGAATGACCCCTCAGTCTGGCCTCCCCAGCCTCAAGGT
CCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTGTACATGACACCGTTGTCTCCAAGGATAATACAGACC
AACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCCGCTGGTCTTCTCCTAGGACTAAGTCCAGGTGCCTTCCA
CAATCTCATGGTCTTTTCAAGTCCCTGGTTACTTTTCTCAAAGGCCATTTCCAAAAGAATACATGCCITCACATCA
CAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAAAGGCCCTGTAAAGAGAGGACATGGATACGGGACCTGGC
CCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCCATACAGAAACCAGTGTGTCCATGTGCTCTGCACAAAAA
CAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGTTTCCCCGAGAGCCGAAGTGGAAGTGAAGCTACAGTTTTT
AGCTGGTGCGGGCCACAGGCAGGGTCAGATTGAGAAGAAGCAAAGCTGGGGAAGCAGAAGTTGGGAGTCTGTGT
TGCTCCCTCTTCTGTGTGGTGTCTGCGGTTTCTGTGGATCGTGAAGGCGATCTCAAGAGTGTTCCTTCCAAAC
CTGATAGCTGCCTATTCTGTCTGGTTGGGGCTGTGGAGGATGTAGTTGTATTTATTGCATTGTAATATTTTAA
CATCCTGTGACTTCATGCTAGAAATTTTCTATTGTTTATAGAACTTTTGTAGAAACATTAACCTCTAAAGCACA
TCTGCATGTCAGTAAAAATCTCAGTTTCGTACAG

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FIGURE 1883

CACCAAATGGCGGATGACGCCGGTGCAGTGGGGGGGCCTGGAGGCCCTGGTGGCCCTGGGATGGGGAACCGCGGT
GGCTTCCGCAGAGGTTTTCGCCAGTGGCATCCGGGGCCGGGGTCGCAGCCGTGGACCGGGCCGGGGCTGAGGCCGC
GGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCGTCACCAAGCTGGGCGCTTGGTCAAGGACATG
AAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCATTAAGGAATCAGAGATCATTGACTTTTTCTG
GGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCACCAGG
TTCAAGGTGACAGGCCGCCGTGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCC
GCACCTGTGCCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTGCTACACCTCAGCCCAGGGCTGCACTGCC
ACCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGG
AAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCT
GTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGT
G

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FIGURE 1884

CGCGGAGCTCGCGGAGGCAAGGCCAAGATAAGGAGTGGATGCCCCGTCACCAAGCTGGGCGCTTGGTCAAGGAC
ATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAAGGAATCAGAGATCATTGACTTTTTC
CTGGGGGCCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCACC
AGGGCTCTCCATTGTCCCCGTGCACAGAGGCTACTAGGGGAACAAGATCGGCAAGCCCCACACCGTCCCCTGCAA
GGTGACAGGCCGCCGTGGCTCTGTGCTGGTGCGCCTCATCCCTGCACCCAGGGGCACTGGCATTGTCTCCGCACC
TGTGCCCAAGAAGCTGCCATTTCTAAGACCTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACC
AAGTCTCCCTATCAGGAATTCAGTACCACCTCGTCAAGACCCACACCAGAGTCTCTGTGCAGCAGACCCAGGCT
CCAGCTGTGGCTACAACATAGGGTTTTTATACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 1885

MPVTKLGRLVKDMKIKSLEEIYLFSLPIKESEIIDFFLGDSLKDEVLKIMPVQKQTRAGQRTLHCPRARLLGE
QDRQAPHRPLQGDRPLRLCAGAPHPCTIQGHWHRLRTCAQELMPSLRPTAT

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FIGURE 1886

GTGTTCCGGCCGATCCACCTCTTCTCGACCCTGGACGTCTACCTTCCGGAGGCCACATCTTGCCCACTCCGCG
CGCGGGGCTAGCGCGGGTTTCAGCGACGGGAGCCCTCAAGGGACATGGCAACTACAGCGGCGCGGGCGGGCGG
CCCGAAATGGAGCTGGCCCGGAATGGGGAGGGTTGGAAGAAAACATCCAGGGCGGAGGCTCAGCTGTGATTGACA
TGGAGAACATGGATGATACCTCAGGCTCTAGCTTCGAGGATATGGGTGAGCTGCATCAGCGCCTGCGCGAGGAAG
AAGTAGACGCTGATGCAGCTGATGCAGCTGCTGCTGAAGAGGAGGATGGAGAGTTCCTGGGCATGAAGGGCTTTA
AGGGACAGCTGAGCCGGCAGGTGGCAGATCAGATGTGGCAGGCTGGGAAAAGACAAGCCTCCAGGGCCTTCAGCT
TGTACGCCAACATCGACATCCTCAGACCCTACTTTGATGTGGAGCCTGCTCAGGTGCGAAGCAGGCTCCTGGAGT
CCATGATCCCTATCAAGGTGGTCAACTTCCCCAGAAAATTGCAGGTGAACTCTATGGACCTCTCATGCTGGTCT
TCACTCTGGTTGCTATCCTACTCCATGGGATGAAGACGTCTGACACTATTATCCGGGAGGGCACCTGATGGGCA
CAGCCATTGGCACCTGCTTCGGCTACTGGCTGGGAGTCTCATCCTTCATTTACTTCCTTGCTTACCTGTGCAACG
CCCAGATCACCATGCTGCAGATGTTGGCACTGCTGGGCTATGGCCTCTTTGGGCATTGCATTGTCCTGTTTCATCA
CCTATAATATCCACCTCCACGCCCTCTTCTACCTCTTCTGGCTGTTGGTGGGTGGACTGTCCACACTGCGCATGG
TAGCAGTGTTGGTGTCTCGGACCGTGGGCCCCACACAGCGGCTGCTCCTCTGTGGCACCTGGCTGCCCTACACA
TGCTCTTCCTGCTCTATCTGCATTTGCCTACCACAAAGTGGTAGAGGGGATCCTGGACACACTGGAGGGCCCCA
ACATCCCGCCCATCCAGAGGGTCCCCAGAGACATCCCTGCCATGCTCCCTGCTGCTCGGCTTCCCACCACCGTCC
TCAACGCCACAGCCAAAGCTGTTGCGGTGACCCTGCAGTCACACTGACCCCCACCTGAAATTCTTGGCCAGTCTCT
TTTCCCGCAGCTGCAGAGAGGAGGAAGACTATTAAAGGACAGTCCCTGATGACATGTTTCGTAGATGGGGTTTGCA
GCTGCCACTGAGCTGTAGCTGCGTGAGTACCTCCTTGATGCCTGTGCGCACTTCTGAAAGGCACAAGGCCAAGAA
CTCCTGGCCAGGACTGCAAGGCTCTGCAGCCAATGCAGAAAATGGGTCAGCTCCTTTGAGAACCCCTCCCCACCT
ACCCCTTCCTTCCTCTTTATCTCTCCACATTGTCTTGCTAAATATAGACTTGGTAATTAAAATGTTGATTGAAG
TCTGG

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FIGURE 1887

MATTAAPAGGARNAGPEWGGFEENIQGGGSAVIDMENMDDTSGSSFEDMGELHQRLREEEVDADAADAAAAEEE
DGEFLGMKGFKGQLSRQVADQMWOAGKRQASRAFSLYANIDILRPYFDVEPAQVRSRLLESMPKIKVVNFPQKIA
GELYGPLMLVFTLVAILLHGMKTSDTIIREGILMGTAIGTCFGYWLGVSSFIYFLAYLCNAQITMLQMLALLGYG
LFGHCIVLFITYNIHLHALFYLFWLLVGGLSTLRMVAVLVSRTVGPTQRLLLCGTLAALHMLFLLYLHFAYHKVV
EGILDTLEGPNIPPIQRVPRDIPAMLPAARLPTTVLNATAKAVAVTLQSH

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FIGURE 1888

GCGGAAGCGGCGCCATTCTGCTCTCCGAGCGCTACTGCCAGCTGATGCCGGGAGCTAACTACCGCGCCGGGGCCGG
GGCCGGGGCCGGGGCCCCGACGTCCCCGCGGGGCCCCGGGACCGCGAGGAGGACGGCGGGGGCCTGGAGCCCCGCGGC
CGTGGCCCCGCGACCTATTGAGGGGCACATCTAACATGTCATTGAGGAGCTGTGGAATTGCAGAGCCAAGTGGG
GACTAAGACGTACAAACAATTGGTAGCTGGAAATAGTCCTAAGAAACAAGCTTCTAGACCACCTATCCAAAATGC
ATGTGTTGCAGATAAGCACAGGCCTCTGGAAATGTCAGCCAAGATCCGAGTACCATTTTACGTCAGGTGTTTCC
CATTAGTAAAAAGGTAGCCCCGGGACCCTCGCTTTGATGATCTGTCAGGGGAATATAATCCTGAGGTGTTTGACAA
AACATACCAATTCTTGAATGACATCCGAGCGAAAGAGAAAGAGTTGAAGAAGCACCTTTCAGGAGAGGAGCATGA
GAAACTGCAGCAACTGCTTCAGCGAATGGAGCAGCAAGAAATGGCACAGCAGGAACGAAAGCAACAGCAGGAGCT
GCACCTGGCCCTGAAGCAAGAACGTCGGGCTCAGGCCCAGCAGGGCCATCGGCCATACTTCTGAAAAATCTGA
GCAGCGCCAGTTGGCACTAGCTGAGAAGTTCAAGGAGCTGAAACGCAGCAAGAAATTGGAGAACTTCTTGAGTCG
AAAGAGGCGACGAAATGCAGGCAAGGACAGGAGACATCTCCCTTTGAGCAAAGAGTAATAAGGAACATCTCTCTG
CTCTGCCACTGCCCCAGGGAGACATGGATCTGTGAGGACAGATTGGCCACGGCTGGTTTCCGTTCAAGGGCAAG
GATCACAGCTGCCCTTGAATCTCATTGCCTCAGAGAAGACTAGAGGGCTCTTGGAATATCCCTAGGGCTACACAA
GAATAGTTCAGCCTTCTGCCATGCCACACAGCCTCAGCTTGAATCTGGTTTATTGCGTCTCGTGTCTTCTCTC
ATCCTTGCCCTAAACCAGGGATTCTGATACCGAAGAAGAGGGGCAATGAAAACCATGGAGTCTGTTCTGTGACTC
CCAGGGCTGGGACATTATGTAGGAGCCACTTCATAAACATTCTCTTACTCATCTTTTATTCTGTTTTTGTGG
CCTTCTTTTTGTGTTTCCCCCCCCGAAACAGAGTCTCGCTCTGTACCCAGGCTAGAGTACAGTGGTGCAATCTCG
CCTCACTGCAACCTCCACCTCCAGGTTCAAGTGATTCTTGTGCTCAGCCTCCCGAGTAGCTGACATCCGCCAC
CAAGCCCAGCTAATT

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FIGURE 1889

MPGANYRAGAGAGARRPRGARDREEDGGGLEPAAVARDLLRGTSNMSFEELLELSQVGTKTYKQLVAGNSPK
KQASRPPIQNACVADKHRPLEMSAKIRVPFLRQVVPISKKVARDPRFDDLSGEYNPEVFDKTYQFLNDIRAKEKE
LKKHLSGEEHEKLQQLLQRMEEQEMAQQERKQQELHLALKQERRAQQGHRPYFLKKSEQRQLALAEKFELK
RSKKLENFLSRKRRRNAGKDRRHLPISKE

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FIGURE 1890

GCTTGGCTGTGTTTATCTCGTTGGGGACTAAGGCGTCGGTTGGCGCGCAACGGGTTCTAGGCTGCAGGCAGCTCG
AGGACCCGCGGCCCCGCGGCTCGGCCTGGCAGATAGCAGAGGCAGCAGGCCGTGCCGGGGGGGCATGTTGCT
GTAACCAAGTGGCCAGGGGATGTTACGGTGGACAGTGCACCTGGAGGGCGGGCCCCGCAGGGTGAACCATGCTGC
AGTGGCTGTGGGCATCGGGTATACTCCTTCGGGGGTTACTGCTCTGGTGAAGACTATGAGACACTGCGTCAGAT
AGATGTGCACATTTTCAATGCAGTGTCTTGCCTTGGACAAAGCTGCCCCGGTGAAGTCTGCCATCCGTGGGCA
AGCTCCTGTGGTACCCTACATGCGCTATGGACACTCAACCGTCCCTCATCGACGACACAGTCCTCCTTTGGGGCGG
GCGGAATGACACCGAAGGGGCCCTGCAATGTGCTCTATGCCTTTGACGTCAATACGCACAAGTGGTTTACACCCCCG
AGTGTCAGGGACAGTTCTTGGGGCCCGGGATGGACATTACAGCCTGTGCTCTAGGCAAGATCATGTACATTTTGG
GGGCTACGAGCAGCAGGCGGACTGTTTTTCCAATGACATTACAAAGCTAGATACCAGCACCATGACATGGACTCT
TATCTGTACAAAGGGCAGCCCTGCACGCTGGAGGGACTTCCACTCAGCCACAATGCTGGGAAGTCACATGTATGT
CTTTGGGGGCCGTGCCGACCGCTTTGGGCCATTCCATTCCAACAATGAGATTTACTGCAACCGCATTCGAGTCTT
TGACACCAGAACTGAGGCTTGGCTGGACTGTCCCCGACTCCAGTGTGCTGAGGGGCGCCGGAGCCACTCGGC
CTTTGGCTACAATGGGGAGCTGTACATCTTTGGTGGTTATAATGCAAGGCTGAACCGGCACTTCCATGACCTCTG
GAAGTTTAATCCGTGTCTCTTTACCTGGAAGAAAGATTGAACCGAAGGGGAAGGGGCCATGTCCCCGCGGCGCCA
GTGCTGCTGTATTGTTGGTGACAAGATTGTCTCTTTGGGGGTACCAGTCCATCTCCTGAGGAAGGCTGGGAGA
TGAATTTGACCTTATAGATCATTCTGACTTACACATTTTGGACTTTAGCCCTAGTCTGAAGACTCTGTGCAAACT
GGCCGTGATTCAGTATAACCTAGACCAGTCTGTTCCTCATGATATCAGGTGGGAGCTGAATGCCATGACCAC
CAACAGCAATATCAGTCGCCCCATCGTCTCCTCCCATGGGTAGGAGGAAGTTTCTGCCACCTCCCCCTCCTGAGCC
TGCTGTCTCTTCACTGCCCCCTGCCCATCTGTACCCACCTGCTCCTTTGACCCCTGGACTTGGTATACCTCCAT
GTGGAGTTGTTGGGCGAGAGGTGTTCTCTGTGCTGTGAATTCAGTGGGAGCTGTAGCGGGGTGGGGGCTAGGTT
CCTCCCCCTTGGGCGAGGGCCCTTCCCCTTGGTGCTCTGTCCCCATCCACCTCCTTTCAGCTGCTCCTGGGC
CTCAGCTCTGCCAGGGCCAGCCAGGTTCTGCTGGGAAGGGAAGGGAATGGGGAGAAGGGAGAAGCAAGCAGTGT
CTGAGCCTCAGGAGCTTCCCCCTCCCCCTTGCCTATCCCCCTCCCCCTCTGCTTGAGCCTTGAGCCTTGACTGGGA
GCTGAAAGGAGTTGCAGCTGTTGGCATGAGACCTCCTTCTCCCCGTCTTGGGGAGGTGGGGACCAGCAGATAAAT
CCACCCCTTCCTTGAGCTGTGCTGTACTCTGAAGTTCAGCCAGCTCAGATTTTATAAAAAATTAATTAATTAATCTC
CAAA

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FIGURE 1891

MLRWTVHLEGGPRRVNHA AVAGHRVYSFGGYCSGEDYETLRQIDVHIFNAVSLRWTKLPPVKS AIRGQAPVVPY
MRYGHSTVLIDDTVLLWGGRNDEGACNVLYAFDVNTHKWFTPRVSGTVPGARDGHSACVLGKIMYIFGGYEQQA
DCFSNDIHKLDTSTMTWTLIC TKGSPARWRDFHSATMLGSHMYVFGGRADRF GPFHSNNEIYCNRI RVFDIRTEA
WLDCPPTPVLPEGRRSHSAFGYNGELYIFGGYNARLNRHFHDLWKFNVPVSFTWKKIEPKGKGPCPRRRQCCCI VG
DKIVLFGGTSPSPEEGLGDEFDLIDHSDLHILDFSPSLKTLCKLAVIQYNLDQSCLPHDIRWELNAMTTNSNISR
PIVSSHG

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FIGURE 1892

CCTTCAATGTGAAGCTAATATCTCCTATAGCATAGTTAATGTTTATTCAACAAATATTCATGCAGCGGAGTCAAG
AACACACCACGATGGCGGGAGAAAGGAAGAGACGCCGAGCGGCCGAGTGC GGCCGAGCAAAGCCGGAGCCGGAGCG
GGGCCGAGGAGACGGGCCGGGTCCGGACGGGCCGAGATGCGCCTATAAACTGAAAAAGGAGAAGGAGCCCCCAA
GGTTGCCAAATGCACAGCCAAGCCTAGCAGCTCGGGCAAGGATGGTGGAGGCGAGAACACTGAGGAGGCCCCAGCC
GCAGCCCCAGCCCCAGCCCCAGCCCCAAGCCAGTCTCAGCCACCGTCATCCAACAAGCGTCCCAGCAATAGCAC
GCCGCCCCCAGCAGCTCAGCAAAATCAAGTACTCAGGGGGGCCCCAGATTGTCAAGAAGGAGCGACGGCAAAG
CTCCTCCCGCTTCAACCTCAGCAAGAATCGGGAGCTGCAGAAGCTTCTGCCCTGAAAGATTGCCAACCAGGA
GCGGGAGGAGCTGTTTATCCAGAAGCTACGCCAGTGCTGTGTCTCTTTGACTTCGTGTCTAGACCCACTCAGTGA
CCTCAAATTCAAGGAGGTGAAGCGGGCAGGACTCAACGAGATGGTGGAGTACATACCCATAGCCGTGATGTTGT
CACTGAGGCCATTTACCTGAGGCTGTCACCATGTTTTAGTGAACCTCTTCCGGACGCTGCCACCTTCATCGAA
TCCCACAGGGGCTGAGTTTGACCCAGAGGAAGATGAGCCACCTGGAAGCTGCTTGGCCACATCTCCAGCTCGT
GTATGAGTTCTTCTTACGTTTCTTGAGTCTCTGATTTCCAGCCAAACATAGCCAAGAAGTACATCGACCAGAA
GTTTGTACTTGCTCTCTAGACCTATTTGACAGTGAGGATCCTCGAGAGCGGGACTTCTCAAGACCATTTTGCA
TCGCATCTATGGCAAGTTTTTGGGGCTCCGGGCTTATATCCGTAGGCAGATCAACCACATCTTCTACAGGTTCTAT
CTACGAGACGGAGCATCACACGGGATTGCTGAGCTCCTGGAGATCCTGGGCAGCATCATCAATGGCTTTGCTCT
GCCCCTTAAAGAAGAGCACAAAGATGTTCTCATCCGTGTCCTACTTCCCTTCACAAGGTCAAGTCCCTGAGTGT
CTACCACCTCAGCTGGCATACTGTGTGGTACAATTCTTGAGAAAGGAGAGCAGTCTGACTGAGCCGTAATTGT
GGGACTTCTCAAGTTTGGCCCCAAGACCCACAGCCCCAAGGAGGTGATGTTCTTGAAAGAGCTGGAGGATCT
GGACGTCATTGAACCTTCTGAGTTCAGCAAAGTGATGGAACCCCTCTCCGCCAGCTGGCCAAGTGTGTCTCTAG
CCCCATTTCCAGGTGGCAGAGCGTGCTCTCTATTACTGGAACAATGAGTACATCATGAGCCTGATAAGTGACAA
TGCTGCCGAGTCTCTCCCATCATGTTCCCTGCACTCTACAGGAACCTCAAGAGCCACTGGAACAAGACAATCCA
TGGACTGATCTATAATGCCCTGAAGTTGTTTATGGAATGAATCAGAAAGCTGTTTGATGACTGCACACAACAATA
CAAGGCAGAGAAGCAGAAGGGCCGGTTCCGAATGAAGGAAAGGAGAGATGTGGCAAAAAATCGAGGAGCTGGC
CCGGCTTAATCCCCAGTATCCCATGTTCCGAGCCCTCCACCCTGCCCCCTGTGTACTCGATGGAGACAGAGAC
CCCCACAGCTGAGGACATCCAGCTTCTGAAGAGGACTGTGGAGACTGAGGCTGTTTCTGATGCTAAAAGACATCAA
GAAGGAGAAAGTGCTGCTGCGGAGGAAGTCGGAGCTGCCCCAGGACGTGTACACCATCAAGGCACTGGAGGCGCA
CAAGCGGGCGGAAGAGTTCTTAAGTCCAGCCAGGAGGCTCTCTGACCCCTCACGTTCTTACCACAGGGCCACAG
CCCACACAGCCCTGGGACACTGCCCTGGCCCTCCATACTCTGTCTCCCTACTGGCTGTCTTGGGGGAAGGCAGCGC
CTCTCTAGCTACTCAAGGGAGGGGATGTGGGCATTGAAGCAGGGACACCCACAGAATGGTCCCTCTTCTCCCC
AAAAGGTGTTTCAATGCCTCCCTGTGGCTAGTACAGGCTGAGCACTAAGATGCTTAGTGCTCAGACAACCTGGGGAT
GCCTGTCCCTACCTGCTCCTCACCACAGCTACCTGAGGCTGCTCTGAGAAGTACACACAGGAATACATACGCT
CCTCTATTCTTCCCTTCTATCTCTATTGAACGCCAGGTATCTCCCTCCTCTCTCTCCCTGCAGAGGCATGTAG
GGAACAGCAGGAGATTATTCTCACCAAAGTTATGTCAAGCCCCATTGGTCCCAGAGTAGCTGAAGGGAAGCCAAC
CCCCCTGCAGCACAAATAGGCCCCCAGTCCCAGCCGTGTGCTGGCAGATAGGGTTGTATTATTTCTTCTTACCC
CATGCCTGACCAAGGGAGGTCAAAAGGAGAAAAGTATAGGCTGTGGACAATAACTGATGAATATAGGGCCCAGAT
GGACCAAGTGGGGCCGGGAGGGATGAATAAACACCTTACCCCGTGCCCTGTCTTTGGTGAGCAGCAGCCCTGGG
GTCACAGACATGGAAGGGACCACCTGGGGCTGACTGCTTTTCTGTGCTGTGGTTCCCAAACTAGAAAGAAGG
AAGCAGGGAGCGGTGCCCAAGCATGGCTCCTGCCAACACCTATTTATTTCTTGTGTTGTGCTATGCTGGGCAGG
CCTTCTCTTGTCCCTTATAGGTACCTTGAGAGGGGCCAGGGGCTGAGGAAGGCCGACCCAGGTTCCAGGGGCGCA
GGCAGTGCGGCTTTTGGCTGTGTACATAGGGTGCTTTATTCTCCACAGAGTGATACATGCTAAGGTGGGTGGGC
TTGGACCGATGTCCCATATGTACAGAACTGAATAAAGTGGGTCTCTG

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FIGURE 1893

MPYKLLKEKEPPKVAKTAKPSSSGKDGGGENTEEAQPPQPQPQPQAQSQPPSSNKRPSNSTPPPTQLSKIKYS
GGPQIVKKERRQSSSRFNLSKNRELQKLPALKDSPTQEREELFIQKLRQCCVLDFVSDPLSDLKFKEVKRAGLN
EMVEYITHSRDVVTEAIYPEAVTMFSVNLFRITLPPSSNPTGAEDPDEDEPTLEAAWPHLQLVYEFFLRFLSPD
FQPNIAKKYIDQKFVLALLDLFDEDPREDFLKTILHRIYGKFLGLRAYIRRQINHFYRFIYETEHNGIAEL
LEILGSIINGFALPLKEEHKMFLIRVLLPLHKVKSLSVYHPQLAYCVVQFLEKESLTPVIVGLLKFWPKTHSP
KEVMFLNELEEILDVIEPSEFSKVMEPLFRQLAKCVSSPHFQVAERALYYWNNEYIMSLISDNAARVLPIMFPAL
YRNSKSHWNKTIHGLIYNALKLFMEMNQKLFDDCTQQYKAEKQKGRFRMKEREEMWQKIEELARLNPQYPMFRAP
PPLPPVYSMETETPTAEDIQLLKRTVETEAVQMLKDIKKEKVLLRRKSELQDVYTIKALEAHKRAEEFLTASQE
AL

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FIGURE 1894

GAATTCCGCCCAGACGCAGGCTTCTTCTCGGGTCTTGGTCCTGCATCCTCTCTCTCCCAGAGCCTCCGTTAGGGG
GTGGGAAAGGACTTTGCCATAGGTCGCTGAGGCCACCATCTGCTCTCTTACTGGCCAAGGGCGTAAAAAGATAGT
CTTCCCATTAGCTAGAGAGCAAACCCAGAAAGCCTATTGGTTGCGCCGTCCGCGGGCCTTGGTCCGCTTTGAAG
GCGGGCTGCGGCTGCGAGAGGAGGGCGGGCGGGAGGCTAGCTGTTGTCGTGGTTGCTCGGAGGCACGTGTGCAGT
CCCAGAAAGCGGCGAGGGGAAACTGCTCCGCGCGCGCCCGCGGGAGGAGGAACCGCCCGGTCTTTAGGGTCCGGG
CCCGGCCGGGCCATGGATTCAATGCCTGAGCCCGGTCCCGCTGTCTTCTGCTTCTTCCCTTGCTGCTGCTGCTG
CTGCTGCTGCTGCCGGCCCCGGAGCTGGGCCCCGAGCCAGGCCGGAGCTGAGGAGAACGACTGGGTTCGCCTGCCC
AGCAAATGCGAAGTGTGTAAATATGTTGCTGTGGAGCTGAAGTCAGCCTTTGAGGAAACCGGCAAGACCAAGGAG
GTGATTGGCACGGGCTATGGCATCCTGGACCAGAAGGCCTCTGGAGTCAAATACACCAAGTCGGACTTGCGGTTA
ATCGAAGTCACTGAGACCATTGCAAGAGGCTCCTGATTATAGCCTGCACAAGGAGAGGACCGGCAGCAATCGAT
TTGCCAAGGGCATGTCAGAGACCTTTGAGACATTACACAACCTGGTACACAAAGGGTCAAGGTGGTGATGGACA
TCCCTATGAGCTGTGGAACGAGACTTCTGCAGAGGTGGCTGACCTCAAGAAXCAGTGTGATGTGCTGGTGGAG
AGTTTGAGGAGGTGATCGAGGACTGGTACAGGAACCAACAGGAGGAAGACCTGACTGAATTC

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FIGURE 1895

MDSMPEPASRCLLLLPLLLLLLLLLLPAPELGPSQAGAEENDWVRLPSKCEVCKYVAVELKSAFEETGKTKEVIGT
GYGILDQKASGVKYTKSDLRLIEVTETICKRLIIACTRRGPAAIDLPRACQRPLRHYYTTWYTKGSRW

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FIGURE 1896

TGATGAAACTGTAACCTACAAGAAAAGGGCTGGGTTTTGAAAATAACACAGGCTCTAAAAACCCTAAGAAGCGGT
GCAACTTTTGGCAGGAATCGGGGTTAGCGGGACCTCAAGGGCTCACTGCGGCTAAGTGAACGCTGACTGGTCCTC
CAGCGTGAGCTAGAACAGACGCTCTCTATGGTCAAGTAAACAGAGCGTGTGCTGTCTTCCCCATGTGGTGGGGTTG
CGCATGATCAGTAGCTGCACCACTAGAAAAGATGGCGGAGCAAGAGCAAAGAAAAATCCCTTTGGTTCCAGAAAAAT
CTCCTGAAAAAGAGGAAGGCTTATCAAGCCCTCAAAGCCACCCAGGCAAAGCAGGCACTTTTGGCAAAGAAGGAG
CAGAAGAAAGGAAAAGGGCTCAGGTTTAAGCGACTGGAATCATTCTACATGATTCTTGGCGGCAGAAACGTGAC
AAGGTGCGTCTCAGACGACTAGAAGTGAAACCTCATGCCCTTGAATTGCCAGATAAACATTCTTGGCCTTTGTT
GTACGCATCGAAAGGATTGACGGCGTGAGTTTACTGGTGACAGAAACCTTGCAAGACTTCGCCTAAAGAAAATT
TTTAGTGGTGTCTTTGTAAAAGTCACCCCCAGAATCTAAAAATGCTGCGTATAGTGGAACCTTATGTGACCTGG
GGATTTCCAAATCTGAAGTCTGTCCGAGAACTCATTTTGAAACGTGGACAAGCCAAGGTCAAGAATAAGACCATC
CCTCTGACAGACAATACAGTGATTGAGGAGCACCTGGGGAAGTTTGGCGTCATTTGCTTGGAGACCTCATTTCAT
GAAATTGCCTTCCCAGGGAAGCATTTCAGGAGATCTCATGGTTCTTGTGCCCTTTCCACCTCTCAGTGGCCCGT
CATGCTACCAAAATAGAGTGGGCTTCTCAAGGAGATGGGCACACCTGGCTATCGGGGTGAACGCATCAATCAG
CTCATCCGTCAGCTGAACTAGACCCAGGTGCCAAACTGCGGTAAATTTTTTATCAGTGAAGTGAAGCATGTGTT
TTGTTTTGGAAATTTTTATCAAGTATCTTCAGAGAAGATTATTCCTGCTTTATCTTCAGAACTGGAAGGGTC
AAAGAAAAGACAGTAGCTGGCCGGTCGTGGTGGCTCATGCCTGTAATCCCAACACTTAGGGAGGCTGAGGTGGGC
AGATCACCTGAGGTTGGGAGTTCGAGACCAGCCTGACCAACATGGAGAAATGCCATCTCTACTAAAAATACAAAA
ATTAGCCGGGCATGGTGGCACGTGCCTGTAATCCCAGCTACTCAGGAGGCTGAGGCAGGAGAATCGCTTGAACCT
GGGAGGTGGAAGTTGCAGTGAGCTGAGATCACGCCATTGCACTCCAGCCTGGGCAACAAGCGAAACTCTGTCTCA
AAAAAAAAGAAAAGACAGTAGCATATGTTTCATGTCAAGCACCTCTCATCACAGTCGAGTTCCAAGGAAAAATTC
AGTGTCTTCTGCATTGGGTGCTGTGTCATCTGAAATCGGCACATTCCATGGAGGAAGGAGTCTGCTTTGTTGCA
TGTATCCTAGGGTTAATGTTGGTAAATGAGTCACTCTAGCATTTGTAGAAGGCTCCCTGAGACTCCTGCAGCAG
TCGACCAAGCCCAAGGACATAATTGAATCTGGAGAGTCTGGGGCCTTGTTTTGAAAAAGACTTGAAATACACAT
AGGAAGAAAGGCATAAAAAATAATGTTCACTTGTCTCTGC

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FIGURE 1897

MISSCTTRKMAEQEQRKIPLVPENLLKKRKAYQALKATQAKQALLAKKEQKKGKGLRFKRLESFLHDSWRQKRDK
VRLRRLEVKPHALELPDKHSLAFVVRIERIDGVSLLVQRTIARLRLKKIFSGVFVKVTPQNLKMLRIVEPYVTWG
FPNLKSVRELILKRGQAKVKNKTIPLTDNTVIEEHLGKFGVICLEDLIHEIAFPKGKHFQEISWFLCPFHLSVARH
ATKNRVGFLKEMGTPGYRGERINQLIRQLN

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FIGURE 1898

GCGCCTGT CAGGGAAGCGGCGCGCGCGCGGGCGGGCGGGCTGGGGATCCGCCGCGCAGTGCCAGCGCCAG
CGCCAGACCCGCGCCCCGCGCTCTCCGGCCCCGTGCGCTGCGCTTGGGACTCGCGAGCCCGCACTCCCGCCCTGCGCT
GTTGCGTGCCCGAGTATGGAGCTGCTGTGTTGCGAAGGCACCCGGCACGCGCCCCGGGCGGGCGGACCCGCGG
CTGCTGGGGGACCAGCGTGTCTGCAGAGCCTGCTCCGCTGGAGGAGCGCTACGTACCCCGCGCCTCTACTTTC
CAGTGCGTGCAGCGGGAGATCAAGCCGCACATGCGGAAGATGCTGGCTTACTGGATGCTGGAGGTATGTGAGGAG
CAGCGCTGTGAGGAGGAAGTCTTCCCCCTGGCCATGAACTACCTGGATCGCTACCTGTCTTGGCTCCCCACCCGA
AAGGCGCAGTTGCAGCTCCTGGGTGCGGTCTGCATGCTGCTGGCCTCCAAGCTGCGCGAGACCACGCCCTGACC
ATCGAAAACTGTGCATCTACACCGACCACGCTGTCTCTCCCGCCAGTTGCGGGACTGGGAGGTGCTGGTCCTA
GGGAAGCTCAAGTGGGACCTGGCTGCTGTGATTGCACATGATTTCTGGCCTTCATTCTGCACCGGCTCTCTCTG
CCCCGTGACCGACAGGCCTTGGTCAAAAAGCATGCCAGACCTTTTGGCCCTCTGTGCTACAGATTATACCTTT
GCCATGTACCCGCCATCCATGATCGCCACGGGCAGCATTGGGGCTGCAGTGCAAGGCCTGGGTGCTGCTCCATG
TCCGGGGATGAGCTCACAGAGCTGCTGGCAGGGATCACTGGCACTGAAGTGGACTGCTGCGGGCCTGTCTAGGAG
CAGATCGAAGCTGCACTCAGGGAGAGCCTCAGGGAAGCCTCTCAGACCAGCTCCAGCCAGCGCCAAAGCCCCC
CGGGGCTCCAGCAGCCAAGGGCCCAGCCAGACCAGCACTCTACAGATGTACAGCCATACACCTGTAGCCCTGG
AGAGGCCCTCTGGAGTGGCCACTAAGCAGAGGAGGGGCGCTGCCACCCACCTCCCTGCTCCAGGAACACACC
ACATCTAAGCCTGAAGGGGCGTCTGTTCCTCCCTTACAAAGCCCAAGGGATCTGGTCCTACCCATCCCCGCAGTG
TGCCTAAGGGGCCCCGCCAGCCATGTCTGCATTTGGTGGCTAGTCAAGCTCCTCCTCCCTGCATCTGACCAGC
AGCGCCTTTCCCAACTCTAGCTGGGGGTGGGCCAGGCTGATGGGACAGAATTGGATACATACACCAGCATTCTTT
TTGAACGCCCCCCCCCACCCTGGGGGCTCTCATGTTTTCAACTGCCAAAATGCTCTAGTGCTTCTAAAGGTGT
TGTCCTTTCTAGGGTTATTGCATTTGGATTGGGGTCCCTCTAAAATTTAATGCATGATAGACACATATGAGGGG
AATAGTCTAGATGGCTCCTCTCAGTACTTTGGAGGCCCTATGTAGTCCGTGCTGACAGCTGCTCCTAGAGGGAG
GGGCCTAGGCCTCAGCCAGAGAAGCTATAAATTCCTCTTTGCTTTGCTTTCTGCTCAGCTTCTCCTGTGTGATTG
ACAGCTTTGCTGCTGAAGGCTCATTTTAATTTATTAATTGCTTTGAGCACAACCTTAAGAGGACATAATGGGGG
CTGGCCATCCCAAGTGGTGGTAACCCCTGGTGGTTGCTGTTTTCTCCTCTCTGCTACTGGCAAAGGATCTTT
GTGGCCAAGGAGCTGCTATAGCCTGGGGTGGGGTCTAGCCCTCCTCTCCATTGTCCCTCTGCCCCATCCTCCAG
CAGGGAAAATGCAGCAGGGATGCCCTGGAGGTGGCTGAGCCCCGTCTAGAGAGGGAGGCAAGCCCTGTTGACAC
AGGTCTTTCTAAGGCTGCAAGGTTTAGGCTGGTGGCCAGGACCATCATCCTACTGTAATAAAGATGATTGTGA
AATAAACTGGCTTTGGCTTCTTGAAAAA

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FIGURE 1899

MELLCEGTRHAPRAGPDPRL LGDQRVLQSLRL EERYVPRASYFQCVQREIKPHMRKMLAYWMLEVCEEQRCEE
EVFPLAMNYLD RYLSCVPTRKAQLQLLGAVCM LLASKLRETTPLTIEKLCIYTDHAVSPRQLRDWEVLVLGKLKW
DLAAVIAHDFLAFILHRLSLPRDRQALVKKHAQTFLALCATDYTFAMYPPSMIATGSIGAAVQGLGACSMGDEL
TELLAGITGTEVDCLRACQEQIEAALRESLREASQTSSSPAPKAPRGSSSQGPSQTSTPTDVTAIHL

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FIGURE 1900

CACCGCGCAAGCGCATCCTGGCCTTTCTTCAAGTCCCCACGTGCGATCCTTCCCGGCAACTTTTTTCGAGAAAAATG
CCCAAATTCAAGGCGGCCCGTGGGGTGGGGGGTCAGGAAAAACATGCGCCCTGGCCGATCAGATCCTGGCTGGG
AATGCGGTGCGGGCGGGGGTCCGGGAGAAGCGGGGGGTGCGGGGACAGGAGAAGCGGAGGAAGAGTATGTGGGG
CCCCGGCTGAGCCGACGGATTTTGCAGCAAGCACGGCAGCAACAGGAGGAACTCGAGGCCGAGCATGGGACTGGG
GACAAGCCCGCGGCGCCGCGGGGAACGCACCACGCGGCTGGGTCCAAGAATGCCTCAGGATGGATCAGATGACGAG
GACGAGGAGTGGCCACCCTGGAGAAGGCTGCCACAATGACAGCAGCGGGCCATCATGCAGAGGTGGTTGTGGAC
CCTGAGGATGAGCGTGCCATAGAGATGTTCAATGAACAAGAACCCTCCTGCCAGGCGCACCCCTGGCTGACATCATC
ATGGAGAAGCTGACTGAGAAGCAGACAGAGGTTGAGACAGTCATGTGAGAGGTGTCGGGCTTCCCTATGCCCCAG
CTGGACCCCGGGTCTAGAAAGTGTACAGGGGGGTCCGGGAGGTATTATCTAAGTACCGCAGTGGAAAACTGCCC
AAGGCATTTAAGATCATCCCTGCACTCTCCAACCTGGGAGCAAATCCTCTACGTCACAGAGCCGGAGGCCTGGACT
GCAGCTGCCATGTACCAGGCCACCAGGATTTTTGCCTCTAACCTGAAGGAACGCATGGCCCAGCGCTTCTACAAC
CTTGCTCTGCTCCCTCGAGTACGAGATGACGTTGCTGAATACAAACGACTCAACTTCCATCTCTACATGGCTCTC
AAGAAGGCCCTTTCAAACCTGGAGCCTGGTTCAAAGGGATCCTGATTCCACTGTGCGAGTCTGGCACTTGTACC
CTCCGGGAAGCCATCATTGTGGGTAGCATCATCACCAGTGCTCCATCCCTGTGTTGCACTCCAGTGGCGCCATG
CTGAAAATTGCTGAGATGGAATACAGCGGTGCCAACAGCATCTTCTGCGACTGCTGCTGGATAAGAAGTATGCA
CTGCCTTACCGGGTGCTGGATGCCCTAGTCTTCCACTTCTGGGGTCCGGACAGAGAAGCGTGAAGTGCCTGTG
CTGTGGCACCAGTGCCCTCTGACTTTGGTCCAGCGCTACAAGGCCGACTTGGCCACAGACCAGAAAGAGGCCCTC
TTAGAACTGCTCCGGCTGCAGCCCCATCCACAGCTATCGCCGAAATCAGGCGTGAGCTTCAGAGTGCAGTCCCC
CGCGATGTGGAAGATGTTCCCATCACCGTGGAGTGAAGGAAAACAGTCAGCTGTCCTGGCCAAAGGGGTTTGAAG
GACACCAAGACCCCGTTGGTGACTGAAGATGACACTGAGCTTTAATGGCTGAAGACCCAGATCAGGGCAGTGAC
AGATCACAGGGACATCTGTGGCTCCAGTCCAGGACAGGAAGGACTGAGGGTCTGGCTGGTTCCCTCTTCCATT
TAGGCCCTTATCCCTGTTTGTCTGAGAGCCAACCTGAGATACCATATGCTAGCATTCCCAGTCCCAGCTGGG
GCTTGGTGTGAGTACTTTTTCTATGGCTATTGTGTCAGGTCACTGTGGATAAAGGCAAAGACAGATATTTATTGA
AAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1901

MNKNPPARRTLADIIMEKLTEKQTEVETVMSEVSGFMPQLDPRVLEVYRGVREVLISKYRSGKLPKAFKIIPALS
NWEQILYVTEPEAWTAAAMYQATRIFASNLKERMAQRFYNLVLLPRVRDDVAEYKRLNFHLYMALKKALFKPGAW
FKGILIPLCESGTCTLREAIIVGSIITKCSIPVLHSSAAMLKIAEMEYSGANSIFLRLLLDKKYALPYRVLDALV
FHFLGFRTEKRELPVLWHQCLLTIVQRYKADLATDQKEALLELLRLQPHPLSPEIRRELQSAVPRDVEDVPITV
E

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FIGURE 1902

CTTGGGGTGGGGACCGGGTGAGGGGCCTGACGGCAGAGTCGGTCCAGAACTGCCCCGACAGCGACGACAGCGAG
GAGCCAAAATGGAAGAGGGTGCAAGTCCCTCCTGGGGCCCCAGACGCCCCCTCTTTCTTGCTGCCTGGAGCAG
GGGCAGTGCTGTTAGTGGCTACTCCTGGTGTGAACAGCCCATCCTGGCCACCTTCCACAGGAAACCTGACCTGAA
GGACAGAAGAGGAAGGAAGCAGGCTTTGCCACAAATGTCAGTGCAGAACTCTGGCTGGCCCCACCAAGAAGACAG
CCCCAAGCCCCAGGATCCAGGTCCACCAGCCAACTCAGACAGTGAAGTCCAGGCCACCTGCCGGGGAGGACCCTGA
GGATACCCATGCTCAGGAATTCCTGTCTCTGCACCTGCTTAGAACATGGGGTTTGTACTTTAAACTCATTACAT
GAGTATTCATTATCTCTCCTAGGGGGTCTGTATTGTCAAACCAGACTCTAGGGGCTTTGGCCCCAAGGCGTGAAG
GGGGTTAAGAAGGGAAAGCATAAGAAGGGAAAGCTGTTTTGGGGTGTGGGGCCTCCCAGCCTCCCTCAAGGAAGA
CCACACATGCAGGCATCAGTCAGCTATCCTTGCACTCAGTGAGGATCTGCAAGGAGGACCCTCCCAAATGGAGGG
CATGCTTAGAAGCTGCTCTAGATTGGAGAAGAGGTGGCAATGATGAGGGGGAAAGAAGGAGAAAGGAAAGAAAA
CCTAGTTTCACTCCTCCCTTCTTCCATGCTCCTCAGGGTCTGCAAGTCTGAGCTTGGGTTCCCTTTGCCTGG
ACACCAACCAAGCCCCCAACTGGACTGGACTTCAGACCCTCCTGCAGCAACTCCTCCGAGGACATTGATGAGC
GCTACTGCCTGGCCCTTGGGGAGGAGGAGCGGGCCGAGCTGCAGCTCTTCTGTGCCAGGCGGAAGCAGGAAGCCC
TGGGACAGGGGGTAGCCCGCTGGTACTTCCCAAGCTTGAAGGACACACCTGTGAGAAGTGTAGGGAGTTGCTGA
AGCCAGGGGAGTACGGAGTGTTTGCAGCCCGGGCAGGGGAACAGCGCTGCTGGCACCAGCCTTGCTTTGCCTGCC
AGGCCTGTGGCCAGGCCCCTGATAAACCTCATCTACTTCTACCATGATGGACAACTCTACTGCGGCCGTTCATG
CAGAGTTGCTGCGCCCGCGCTGCCCGGCTTGTGACCAGCTGATCTTCTCCTGGCGCTGCACCGAGGCGGAGGAC
AGCGCTGGCATGAGAACCATTCTGTGGCAGGACTGCGCCGGGCTCTGGGCGGGGACGTTATGCCCTGCCTG
GGGGAAGCCCCTGCTGCCCCAGCTGCTTCGAGAACCGCTACTCGGATGCAGGCTCGAGCTGGGCGGGGCACTGG
AAGGGCAGGCATTCTTGGAGCGCCCCACCGCACCCCCAGACCCAAAGCCTCGGGGCCCCGAGCTCTACCCGG
CATCCCTGGCCGGAGCGTTCCAAGGGCCGCCGAACCCACCCCGCGCGGCTCGGGGTTGCGCGCCAGACTCC
CTCCCAGGCGCGGAGGCGGACGCCCTCTGGTGGAGGCGGGGGACCCTGGCGAGGACTCTGCGCGCGCGCGCGG
CGCGCACGGCCCAGGGGCTGGGCGGGGCGGGAGGCTGGGCTCACCCTTAGCTGCGGTGTAGGTTCCAGCTCC
GCGGCTCTGAGACCAGCGTTTCCGACCCGGCCCGGAACAGGGGAGACTGGACTCGACCAACTGAAGGAAGGGAC
CAAACTCGGTGAATCTGCAACCCTCTCCCGAACCTCTTGTGCTGCGCGGTTCCAGCCTGCAAACTCAG
AGGGGGCTGCCTGGATCCAGTCCCAGCAGGAGAACCAGCTGGGGACAAAGCGAGGACCCAAAGGGCAGGAG
CAATGCCGCTGGAGACTATTCTGTATCCCAAGGACACCCTTTCTCCACCTGCTCCTCCTCTGACTCGGAA
CCTGAAGGATTTTCTTAGGCGAGCGCTTCCCAGTCTTGAAGACCCCGGAAGCCTCCAAGCAGAGGACAGC
AACGCTCTAAGACGCACTGCACCATGTGCTAGTGGCGCAGCTCAGAGAGGGATGTGAGTGGGAGGAAAGGGT
CTGTAAAGCGGGAGAACAAAGGCTAGCCTCCCCCTAACAACTCTAGACTGAGACGCGAGTCAAGCGACGCCGCAA
GAGGCGGCGAGGTGACAAGTTTGGAGTGCGCCCTTTCAGTACTGCGCGTTCTAAGACTTTTGGCGGAGACTTTC
TTGGCAAAACCAATCCCCAAAGCTACGCTTCCCCTGCTGAGATAGCCCCTACCCCACTCCACAGGCTGGGAC
AGCCCCGTCCCCACCATCCTCCTCCCAAGCCAATTAATGATCACAGCACGCGTGACAGTTACCGGCTGGAGAGC
CGGAGGTGGGACCGGAGCAGGGGACCGTAGAACCGGGCCGCGCTCCTCCCCTCCTAGAGTTCGTGGAGGCGCAG
CAGAGGGCCGTCCCTCTTCCGGATGTGCGACTAAGCGAACAGCGCCCCACTGCCGGCCGGTAGCAGCCGGAAGT
GCCAGACCGGAGGTGCGTCATTACCGGCGACGCCGATACGGTTCCCTCCAGCGAGGCCCATGCCAAGCTTTCCAC
TATGGCTTCCAGCACTGTCCCGGTGAGCGCTGCTGGCTCGGCTAATGAAACTCCCGAAATACCGGACAACGTGGG
AGATTGGCTTCGGGGCGTCTACCGCTTTGCCACTGATAGGAATGACTTCCGGAGGAACTTGATACTAAATTTGGG
GCCAAGTAGTTCTAATGCCACCTGTCTCTTATCATCTGATTGCAGACAAATGGAATCCTGTGCTGAACCCGAAT
CTTCCAAAAACAGCCTACAACTGTGACCACCAAGATGTGCCCTGATGGCAGCTGAAGTTTGATTGATGAG
GCATTTTCTTCCCCTTCCCTGCCTAGTTTCCCTTTGTTTCTTGGTCCACGCAGAAATTCATTCTCTGGTCAGC
AGACAGGCTTAAGCTAAAGTATTGCCTCTATTCTGTAAAGTTCTGTACATAGTTCCCAAGCTTCTGCAGGGGGTG
ATTTTGTCTTGTCTGAGAAATAACAGTGCTGTTTTAAAAACATTGAAATAAATACCGCACACAAAGGAAA
AAAAAAAAAAAAAAAAA

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FIGURE 1903

MSPQGPVLSLGSCLDTNQAPNWTGLQTLLQQLPPQDIDERYCLALGEEERAELQLFCARRKQEALGQGVARLV
LPKLEGHTCEKCRELLKPGEYGVFAARAGEQRCWHQPCFACQACQALINLIYFYHDGQLYCGRHHAELLRPRCP
ACDQLIFSWRCTEAEGQRWHENHFCCQDCAGPLGGGRYALPGGSPCCPSCFENRYSDAGSSWAGALEGQAFLGAP
PPHPPDPSLGARSSHRASLAGAFQGPPEPTPRRGRGCGARLP RRGRRTPSGGGGPWRLSAAAAARTAQGLGG
AGGWASPPLAAV

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FIGURE 1904

CTAGTTAAGGCGGCACAGGGCCGAGGCGTAGTGTGGGTGACTCCTCCGTTCCCTGGGTCCCCTCGTCTGTGATAC
TGCAGTTCAGCCATGGCAGAACCGCAGCCCCCGTCCGGCGGCCTCACGGACGAGGCCGCCCTCAGTTGCTGCTCC
GACGCGGACCCAGTACCAAGGATTTTCTATTGCAGCAGACCATGCTACGAGTGAAGGATCCTAAGAAGTCACTG
GATTTTATACTAGAGTTCTTGAATGACGCTAATCCAAAAATGTGATTTTCCATTATGAAGTTTCACTCTAC
TTCTTGGCTTATGAGGATAAAAAATGACATCCCTAAAGAAAAAGATGAAAAATAGCCTGGGCGCTCTCCAGAAAA
GCTACACTTGAGCTGACACACAATTGGGGCACTGAAGATGATGCGACCCAGAGTTACCACAATGGCAATTCAGAC
CCTCGAGGATTGCGTCATATTGGAATTGCTGTTCCTGATGTATACAGTGCTTGTAAAAGGTTTGAAGAACTGGGA
GTCAAATTTGTGAAGAACTGATGATGGTAAAAATGAAAGGCCTGGCATTATTCAAGATCCTGATGGCTACTGG
ATTGAAATTTGAATCCTAACAAAATGGCAACCTTAATGTAGTGCTGTGAGAAATCTCCTTTGAGATTTCAGAAG
AAAGGAAACAATGTGATTCAAGATATTTACATACCAGAAGCATCTAGGACTGATGGATCACTGTCCCGATTCAA
TTATTCTTCAGTCCATTTCCCTTCTCTATTTCAGCTGTTCCCTTTCACCTAACTGTTCACTCATTCTGTTTTCA
AGCAGTGCTTTATCTCATGTCCTTGAATATAGTTGTGTAACCTTATTTTTTAGGTAATAATTAGAACAGTTCCT
TCAGAGGCTGCATTTGCCCTTCTCTGCCACCTAAATATTACTTCCCTTCAAATCTGCCTTTGAATCATCATTTTT
AAAAAAAATTAACATGTTTTGTGTAGTTATCTTCTGGGGTTCAATTCCTCAGAAACAACTTTTTTCACAAC
GGAAAGGAAAGAACTAGTGTTCTTTCAGTAAAGTACAAAGTGTATTTTTACAAAAGAGTAGGTACTCTTGAG
AGCAATTCAAATCATGCTGACAAGGATACTGATAGAAAAAGTGATTTCTTCTTATTATAAAGTACATTTAAAGTT
CAAGGACTAACCTTATTTATTGGGAAAGGGGAGGAGGAAGGAAATGATATGGTACCCAGACACTGGGCTAGGCT
GCAATTTATCTCATTTAATACTCCCAGCTGTCATGTGAGAAAGAAAGCAGGCTAGGCATGTGAAATCACTTTCA
TGGATTATTAATGGATTTAAGAGGGCATCAATCAGCTCAACTCAAGATTTTATAATCATTTTTTAGTATTAGATT
GTGCCTCAAAGTTGTAGTACCTCACAATACCTCCACTGGTTTCTGTTGTAAAAACCTTCAGTGAGTTGACCAT
TGTGCTCTTGGCTCTTGGGCTGGAGTACCGTGGTGAGGGAGTAAACACTAGAAGTCTTTAGTACAAAACCTGCTCT
AGGGACACCTGGTGATTCTTACACAAGTGATGTTTATATTTCTCATAAAGAGTCTTCCCTATCCCAAGGCTTCA
TGATGCCAGTAGCCATATATGATAAATTATGTTTCAGTGATAACTTAGTTATCAGAAATCAGCTCAGTGCTTCC
CCGCCATGATTCACATTTGATGAGTTTTTAAAAATCAAAGTGATTTTGAAAATCTCTAATGGCTCAGAAAATAAA
AACATCCAGTTTGTGGATGACTATATTTAGATTTCTCTAGACTCTAGTGGAAGACCTTTGGAAAGGCCATGCCAA
CCGTGCTTGTACTGCTAGAAGCACTTTATGTTTCCCTTTTGGGTGAAATGGATTTATGTGAGTGCTTTAAACAAA
TAGCAATACTTATAGACTGAAATAAAATGAACTTCAAATAAG

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FIGURE 1905

MAEPQPPSGGLTDEAALSCCSDADPSTKDFLLQQTMLRVKDPKKSLEDFYTRVLGMTLIQKCDFFIMKFSLYFLAY
EDKNDIPKEKDEKIAWALS RKATLELTHNWGTEDDATQSYHNGNSDPRGFHIGIAVPDVYSACKRFEELGVKFV
KKPDDGKMKGLAFIQDPDGYWIEILNPNKMATLM

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FIGURE 1906

ATGGGAGCTTCGGACCCGGAAGTGGCGCCCTGGGCTCGCGGCGGTGCCGCGGGGATGGCGGGAGCCGGAGCTGGA
GCCGGAGCTCGCGGGCGGAGCGGCGGGCGGGGTGAGGCTCGAGCTCGCGATCCACGCCCCGCGCACC GCGCACAT
CCTCGCCACCCTCGGCCTGCGGCTCAGCCCTCGGCCCGCAGGATGGATGGCGGGTCAGGGGGCTGGGGTCTGGG
GACAACGCCCCGACCAGTGAAGCTCTTTTCGTGGCACTGGGCGCGGGCGTGACGGCGCTCAGCCATCCCTGCTC
TACGTGAAGCTGCTCATCCAGGTGGGTCAIGAGCCGATGCCCCCACCCTTGGGACCAATGTGCTGGGGAGGAAG
GTCCTCTATCTGCCGAGCTTCTTCACCTACGCCAAGTACATCGTGAAGTGGATGGTAAGATAGGGCTGTTCCGA
GGCCTGAGTCCCCGGCTGATGTCCAACGCCCTCTCTACTGTGACTCGGGGTAGCATGAAGAAGGTTTTCCCTCCA
GATGAGATTGAGCAGGTTTCCAACAAGGATGATATGAAGACTTCCCTGAAGAAAGTTGTGAAGGAGACCTCCTAC
GAGATGATGATGCAGTGTGTGTCCCGCATGTTGGCCACCCCTGCATGTCTCATGCGCTGCATGGTCCAG
TTTGTGGGACGGGAGGCCAAGTACAGTGGTGTGCTGAGCTCCATTGGGAAGATTTTCAAAGAGGAAGGGCTGCTG
GGATTCTTCGTTGGATTAAATCCCTCACCTCCTGGGCGATGTGGTTTTCTTGTGGGGCTGTAACTGCTGGCCAC
TTCATCAATGCCTACCTGGTGGATGACAGCTTCAGCCAGGCCCTGGCCATCCGGAGCTATACCAAGTTCGTGATG
GGGATTGCAGTGAGCATGCTGACCTACCCCTTCTGCTAGTTGGCGACCTCATGGCTGTGAACAACCTGCGGGCTG
CAAGCTGGGCTCCCCCTTACTCCCCAGTGTTCAAATCCTGGATTCACTGCTGGAAGTACCTGAGTGTGCAGGGC
CAGCTCTTCCGAGGCTCCAGCCTGCTTTTCCGCCGGGTGTCTATCAGGATCATGCTTTGCCCTGGAGTAACTGAA
TCATCTAAAAAACACGGTCTCAACCTGGCCACCGTGGGTGAGGCTGACCACCTTGGGACACCTGCAAGACGACT
CCAACCCAACAACAACCAGATGTGCTCCAGCCAGCCGGGCTTCAGTTCCATATTTGCCATGTGTCTGTCCAGAT
GTGGGGTTGAGCGGGGGTGGGGCTGCACCCAGTGGATTGGGTCAACCGGCAGACCTAGGGAAGGTGAGGCGAGGT
GGGGAGTTGGCAGAATCCCCATACCTCGCAGATTGCTGAGTCTGTCTTGTGCAGAGGGCCAGAGAATGGCTTAT
GGGGGCCCAGGTGGATGGGGAAGGCTAATGGGGTCAGACCCCAACCCGCTCTACCCCTCCAGTCAGCCCAGCGC
CCATCCTGCAGCTCAGCTGGGAGCATATTCTCTGCTTTGTACATAGGGTGTGGTCCCCTGGCACGTGGCCACC
ATCATGTCTAGGCCTATGCTAGGAGGCAAATGGCCCAGCTCTGCCTGTGTTTTCTCAACACTACTTTTCTGATA
TGAGGGCAGCACCTGCCCTGAATGGGAAATCATGCAACTACTCAGAATGTGTCCTCCTCATCTAATGCTCATCT
GTTTAATGGTGATGCCTCGCGTACAGGATCTGGTTACCTGTGCAGTTGTGAATACCCAGAGGTTGGGCAGATCAG
TGTCTCTAGTCTACCCAGTTTTAAAGTTCATGGTAAGATTTGACCTCATCTCCCGCAAATAAATGTATTGGTGA
TTTGGA

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FIGURE 1907

MGASDPEVAPWARGGAAGMAGAGAGAGARGGAAAGVEARARDPPPAHRAHPRHPRPAAQPSARRMDGGSGGLGSG
DNAPTTEALFVALGAGVTALSHPLLYVKLLIQVGHEPMPPTLGTVNLGRKVLYLPSFFTYAKYIVQVDGKIGLFR
GLSPRLMSNALSTVTRGSMKKVFPPDEIEQVSNKDDMKTSLKVVKETS YEMMMQCVSRMLAHPLHVISMRCMVQ
FVGREAKYSGVLSSIGKIFKEEGLLGFFVGLIPHLLGDVVFLWGCNLLAHFINAYLVDDSFSQLAIRSYTKFVM
GIAVSMLTYPFLLVGDLMAVNNCGLQAGLPPYSPVFKSWIHCWKYLSVQGQLFRGSSLLFRRVSSGSCFALE

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FIGURE 1908

TGTTCTTGAGCCCAGCTTCTTCTCGTCTCCACCCCAGCTTCCCGGCATTGGAAGAAGGGACCGTCTCTTCCTT
GTCTTGGCCACCCAAATCCTGGTATCGAAAAGGGTTGAACGGACCGGAAGTGTGCAGCAGCGACGGGTCCCCAGCT
AATCGACGCCCGGAAGTAGCAATTACTAGACAAGCATTCCGCCGCCGGCTTCGCTATGGCGGCAATTCCCCCAGAT
TCCTGGCAGCCACCCAACGTTTACTTGGAGACCAGCATGGGAATCATTGTGCTGGAGCTGTACTGGAAGCATGCT
CCAAAGACCTGTAAGAACTTTGCTGAGTTGGCTCGTCGAGGTTACTACAATGGCACAAAATTCCACAGAATTATC
AAAGACTTCATGATCCAAGGAGGTGACCCAACAGGGACAGGTCGAGGTGGTGCATCTATCTATGGCAAACAGTTT
GAAGATGAACTTCATCCAGACTTGAAATTCACGGGGGCTGGAATTTCTCGCAATGGCCAATGCGGGGCCAGATACC
AATGGCAGCCAGTTCTTTGTGACCCTCGCCCCACCCAGTGGCTTGACGGCAAACACACCATTTTGGCCGAGTG
TGTCAGGGCATAGGAATGGTGAATCGCGTGGGAATGGTAGAAACAACTCCCAGGACCGCCCTGTGGACGACGTG
AAGATCATTAAAGGCATACCCCTTCTGGGTAGACTTGCTACCCTCTTGAGCAGCTCTTCTGAGATGGCCCCAGTGAA
CCAGCTTCTAGATGACATAGAATGACATGTAATGCTAAATTTTCATTTTGGCTTTGCAAGTCATGAAGCTTAGGAG
GCCTGGCATCTTGGGTGAGTTAGAGATGGAAGTACATTTTAAATAGGATGCTTCTTTCTCTTCCCCCAGTGCCTA
GGTTGCCAGAGCATTGTCACAAATGCCCCGTGTTTATCAATAGGTGACTACTTACTACACATGAACCATAATGCTG
CTTCTTGTGCATGTCTGCTCTGATATACGTGCAACAATGTAGCAGCCACTGTCATTTCTCAGTGGTTTTGCCTAA
CCAACTTCTTCTTAAGGAGATTTATATTCTGGCCTACACAGCAGTCCTTGATGGCTGACAGCCACAGAATTCCA
AACCAGTAGTGTCTGTCAGCCCTCTTAACCTCTGTGCACGCCCTATTTTCAGTCTTTTACATTTGTTCTTCTAGGG
AATGTATGCATCTCTATATATATTTTCCCTCTCAAAACCAGAACATCAACAGTGCTGTTTCTGACACTTCAGACA
TCCCACGCAAAGCCACATTGAATTTTGGCAAATGAAAAACACATCCAACAATCAAGTTTCTAAGAAGGTGTCAA
GTGGGGAATAATAATAATGTATAATAATCAAGAAATTAGTTTATTTAAAGGAAGCAGAAGCATTGACCATTTTTT
CCCAGAGAAGAGGAGAAATCTGTAGTGAGCAAAGGACAGACCATGAATCCTCCTTGAGAAGTAGTACTCTCAGAA
AGGAGAAGCGCCACTCAAGTTCTTTTAACCCAAGACTTTAGAGAAATTAGGTCCAAGATTTTTATATGTTTCAGTT
GTTTATGTATAAAAATAACTTTCTGATTTTGTGGGGAGGAGCAGGAGAGGAAGGAAGTTAATACCTATGTAATA
CATAGAACTTCCACAATAAAATGCCATTGATGGTTGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1909

MAAIPDSWQPPNVYLETSMGIIVLELYWKHAPKTCKNFAELARRGYNGTKFHRIIKDFMIQGGDPTGTGRGGA
SIYGKQFEDELHPDLKFTGAGILAMANAGPDTNGSQFFVILAPTQWLDGKHTIFGRVCQGIGMVNRVGMVETNSQ
DRPVDDVKIIKAYPSG

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FIGURE 1910

CGTCAGAACCCATGCGGCAGCAAGGCCTGCCGCCGCCCTCTTCGGCCCCAGTGGACAGCGAGCAGCTGAGCCGCGAC
TGTGATGCGCTAATGGCGGGCTGCATCCAGGAGGCCCGTGAGCGATGGAACTTCGACTTTGTCACCGAGACACCA
CTGGAGGGTGACTTCGCCTGGGAGCGTGTGCGGGGCCCTTGGCCTGCCCAAGCTCTACCTTCCCACGGGGCCCCGG
CGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCCTGGCACCTCACCTGCTCTGCTGCAGGGGACAGCAGAGGAA
GACCATGTGGACCAGCCTGGCCAACATGGTGAAATCTCTACTAAAAATACAAAATTAGCTGGGCATGGTGGTGC
ACGCTTGTAATCCCAGCTACTTGGAAGGCTGAGGTGGGAGGATCACTTGAACCCAGGAGGCAGAGGTTGCAGTCA
GCTGAGATCATACCACTGTACTCCAGCCTCTTCCAGGGTGACAGTGAGATTCATCTCAAATAAATACATAAATAA
AAAAC TGTTTGTAATATCTTCT

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FIGURE 1911

MAGCIQEARERWNFDVFTETPLEGDFAWERVRLGLPKLYLPTGPRRGRDELGGRRPGTSPALLQGTAEEDHVD
QPGQHGEISTKNTKISWAWWCTLVIPATWKAEVGGSLEPRRQLQSAEIIPLYSSLFQGDSEIHLK

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FIGURE 1912

AGCTGAGGTGTGAGCAGCTGCCGAAGTCAGTTCCTTGTGGAGCCGGAGCTGGGCGCGGATTGCGCCAGGACACCGA
GGCACTCAGAGGAGGTGAGAGAGCGGGCGGCAGACAACAGGGGACCCCGGGCCGGCGCCAGAGCCGAGCCAAGC
GTGCCCCGCGTGTGTCCCTGCGTGTCCGCGAGGATGCGTGTTCCGCGGTGTGTGCTGCGTTCACAGGTGTTTTCTGC
GGCAGGCGCCATGTCAGAACC GGCTGGGGATGTCCGTCAGAACC CATGCGGCAGCAAGGCCTGCCGCCGCTCTT
CGGCCCAGTGGACAGCGAGCAGCTAGCCGCGACTGTGATGCGCTAATGGCGGGCTGCATCCAGGAGGCCCGTGA
GCGATGGAAC TTCGACTTTGTACCGAGACACCACTGGAGGGTGACTTCGCCTGGGAGCGTGTGCGGGGCCCTGG
CCTGCCCAAGCTCTACCTTCCCACGGGGCCCCGGCGAGGCCGGGATGAGTTGGGAGGAGGCAGGCGGCCCTGGCAC
CTCACCTGCTCTGCTGCAGGGGACAGCAGAGGAAGACCATGTGGACCTGTCACTGTCTTGTACCCTTGTGCCCTCG
CTCAGGGGAGCAGGCTGAAGGGTCCCCAGGTGGACCTGGAGACTCTCAGGGTCGAAAACGGCGGCAGACCAGCAT
GACAGATTTCTACCACTCCAAACGCCGGCTGATCTTCTCCAAGAGGAAGCCCCTAATCCGCCACAGGAAGCCTGC
AGTCCTGGAAGCGCAGGGGCCCTCAAAGGCCCGCTCTACATCTTCTGCCCTAGTCTCAGTTGTGTGTCTTAATTA
TTATTTGTGTTTTAATTTAAACACCTCCTCATGTACATACCCTGGCCGCCCCCTGCCCCACAGCCTCTGGCATT
GAATTATTTAAACAAAACTAGGCGGTTGAATGAGAGGTTCTTAAGAGTGCTGGGCATTTTATTTTATGAAATA
CTATTTAAAGCCTCCTCATCCCGTGTCTCCTTTTCTCTCTCCCGGAGGTGGGTGGGCCGGCTTCATGCCAGC
TACTTCTCTCTCCCACTTGTCCGCTGGGTGGTACCCTCTGGAGGGGTGTGGCTCCTTCCCATCGCTGTACAGG
CGGTTATGAAATTCACCCCTTTCTGGACACTCAGACCTGAATTCTTTTCATTGAGAAGTAAACAGATGGCA
CTTTGAAGGGGCCTCACCGAGTGGGGCATCATCAAAACCTTTGGAGTCCCCTCACCTCCTTAAGGTTGGGCAG
GGTGACCCTGAAGTGAGCACAGCCTAGGGCTGAGCTGGGGACCTGGTACCCTCCTGGCTCTTGATAACCCCTCT
GTCTTGTGAAGGCAGGGGGAAGGTGGGGTCTGGAGCAGACCACCCCGCTGCCCTCATGGCCCTCTGACCTGC
ACTGGGGAGCCCGTCTCAGTGTTGAGCCTTTTCCCTCTTTGGCTCCCCTGTACCTTTTGAGGAGCCCCAGCTACC
CTTCTTCTCCAGCTGGGCTCTGCAATTTCCCTCTGCTGCTGTCCCTCCCCCTGTCTTTCCCTTCAGTACCCTC
TCAGCTCCAGGTGGCTCTGAGGTGCCTGTCCCACCCCAACCCCAAGCTCAATGGACTGGAAGGGGAAGGGACACA
CAAGAAGAAGGGCACCCCTAGTTCTACCTCAGGCAGCTCAAGCAGCGACCGCCCCCTCCTCTAGCTGTGGGGTGA
GGGTCCCATGTGGTGGCACAGGCCCTTGAAGTGGGGTTATCTCTGTGTAGGGGTATATGATGGGGGAGTAGAT
CTTTCTAGGAGGGAGACACTGGCCCCCTCAAATCGTCCAGCGACCTTCCTCATCACCCCATCCCTCCCCAGTTCA
TTGCACTTTGATTAGCAGCGGAACAAGGAGTCAGACATTTAAGATGGTGGCAGTAGAGGCTATGGACAGGGCAT
GCCACGTGGGCTCATATGGGGCTGGGAGTAGTTGTCTTTCTGGCACTAACGTTGAGCCCCCTGGAGGCACTGAAG
TGCTTAGTGACTTTGGAGTATTGGGGTCTGACCCCAACACCTTCCAGCTCCTGTAACTACTGGCCTGGACTGT
TTTCTCTCGGCTCCCCATGTGTCTTCCGTTTCTCCACCTAGACTGTAAACCTCTCGAGGGCAGGGACCAC
ACCTGTACTGTTCTGTGTCTTTCACAGCTCCTCCACAATGCTGAATATACAGCAGGTGCTCAATAAATGATT
TTAGTGACTTTAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1913

MSEPAGDVRQNPCGSKACRRLFGPVDSEQLSRDCDALMAGCIQEARERWNFDVETETPLEGDFAWERVRLGLPK
LYLPTGPRRGRDELGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGPSGGPGDSQGRKRRQTSMTDF
YHSKRRLIFSKRKP

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FIGURE 1914

AATAAAGGCGAGGAGAAGGCGGTGGTCCGCCATTTCTGTGGACGCCGGGTGAGTGAGAGAGTTGGTTGGTGTGGG
CCGGAGGAAAGCGGGAAGACTCATCGGAGCGTGTGGATTTGAGCCGCCGCATTTTTTAACCCTAGATCTCGAAAT
GCATCGTGATTCTGTCCATTGGACTGTAAGGTTTATGTAGGCAATCTTGGAACAATGGCAACAAGACGGAATT
GGAACGGGCTTTTGGCTACTATGGACCACTCCGAAGTGTGTGGGTTGCTAGAAACCCACCCGGCTTGTCTTTGT
TGAATTTGAAGATCCCCGAGATGCAGCTGATGCAGTCCGAGAGCTAGATGGAAGAACAATATGTGGCTGCCGTGT
AAGAGTGGAACGTGTCGAATGGTGAAAAAGAAGTAGAAATCGTGGCCACCTCCCTCTTGGGGTCGTGCCCTCG
AGATGATTATCGTAGGAGGAGTCTCCACCTCGTCGCAGAGTCACCATCATGTCTCTTCTCACCACCTCTTGAAT
CTGCATTAGCCAGTCAACTAGCCCTTTTCAGCGTCATGTGACCAGCGCGCCCATTCAGCTTGGCTGGTGTCTGTT
CACATGACCCAGGCTGGCCAGTCTGTCAGGTTGCACCGCCCTTTGGTTCCCGAGCATGCTGTTTTCTCTCAGCCTT
CTCTCCAACCTTAACCAAAATCGGCAGCAGCCACCTCGACCGCCACACATTCCTGGCCAATCAGCTCAGCTGTTT
ATTTACCAAAATGTCTTCACAACAACCTACAGCAGCAGCCTTCGGCTAACAAAAAGCAGGAAAAATCCACAACACC
CCCTTCGCCAACCAACTAAATCCAACGCAACATCTGGCAAAACCTTTTCAGCAAATTCTTCCTGGCCGTCAGTCC
GGCAGCCTCACCTACCATTTCTAGCTTGTGAAACCCAAAATAATCTCCAAGAAGGAGAAGCTTCTCTCGCAG
CCGGAGCAGGTCCCTTTCTAGAGATAGGAGAAGAGAGAGATCGCTGTCTCGGAGAGAAAATCACAAAGCCGTCCCG
ATCCTTCTCTAGGTCCTCGTAGTCGATCTAGGTCAAATGAAAGGAAATAGAAGACAGTTTGCAAGAGAAGTGGTGT
ACAGGAAATTACTTCATTGACAGGAGTATGTACAGAAAATTCAAGTTTTGTTGAGACTTCATAAGCTTGGTGC
ATTTTTAAGATGTTTTAGCTGTTCAAATCTGTTGTCTCTTGAAACAGTGACACAAAGGTGTAATCTCTATGGT
TTGAAATGGATCATACGAGGCATGTAATACCAAGAATTGTTACTTTACAATGTTCCCTTAAGCAAAATTGAATTT
GCTTTGAACTTTTAGTTATGCACAGACTGATAATAAACCTCTAAACCTGCCAGCGGAAGTGTTTTTTTTTTAA
ATTTAAATACAGAAACAACCTGGCAAAAATTGAACTAAGATTTACTTTTTTTTCCATAGCTGGGATATAGGCTGCA
GCTATAGTTGAACAAGCAGTCTTTAAAACTGCTGTGAAACACAGGCCATCAGGGAAAACGAAATGCTGCACTAT
TAAATTAGAGGTTTTTGAAAAATCCAACCTCTCATCCTGGGCAGAGGTTGCCTAGTTGGTATAGAATGTTAAGTTT
CAAGAAAGTTTACCTTTGCTTTAGGTCATAAGTTCCTTATTTGATTGCTGTATATGGATACATGGCTGTTTCGTGA
CATTCTTTATGTGCAAAATTTGTGATTTCAAAAATGTCCTGCCAGTTTAAGGGTACATTGTAGAGCCGAACCTTGA
GTTACTGTGCAAGATTTTTTTTTTCATGCTGTCATTTGTAATATGTTTTGTGAGAATCCTTGGGATTAAAGTTTTG
GTTACAAATTGTTCTTTAACTTGAAAGCCTGTTTTTCCTTGCAAACTCAAATCTGTGAGCTTGGTACCAAGTCCA
GGTATAACATTCCTATTGGAAGCCATACTTATATTTTCTTGTAAGTGCTTTTGAATTAATAAAATATTAGCATA
ATTGTGTATAGTCAGTTGAACCCACTGTTACCATTGTTCTTATCCCATGGGAAGCAGTTGGTTACACGATTCTTA
TTTTATAAGAAACAGCTGAGAGGCACATGATTAGTCTTCTGAAGTGAAGGAAATATAGATGTCACCTAAGTGA
TAGTTAACCCATTTTTTTTTTTTTTAGGCATAGAAGCCAGTTCAGGGTCCATAATATTTAGTGACCAACATTTTA
AAGTATAGCAGCAACCTGGTTCCTTAAACACAAAGTAAGTTGCCATTAAACAAATGGCTTTTATCTTTAGCATGAA
AACTTTCCACAGGTCTAAAAATTGCTTCCATTTTATAATTTGAGGTGTTGCATGGGAATTCTAAGCTGATCCATC
ATGATGTAAAAGTTCACAATATGGTTCAAATGTAACAGTGCAGAAATTGAATATGGAGGCATGCATAACCTTCCTC
TTAGAAAATGGCAGGTGTTGTAATTTCAAATTTTTGTGCAATTAGATTAAATCATAATGCAACAGT

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FIGURE 1915

MHRDSCPLDCKVYVGNLGNNGNKTELEAFGYYGPLRSVWVARNPPGFVAFVEFEDPRDAADAVRELDGRTLGCGR
VRVELSNGEKRSRNRGPPPSWGRRPRDDYRRRSPPPPRRRVTIMSLLTTL

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FIGURE 1916A

GGTCTCACCATGGAGCGGAAAGTGCTTGCGCTCCAGGCCCGAAAGAAAAGGACCAAGGCCAAGAAGGACAAAGCC
CAAAGGAAATCTGAAACTCAGCACCGAGGCTCTGCTCCCCACTCTGAGAGTGATCTACCAGAGCAGGAAGAGGAG
ATTCTGGGATCTGATGATGATGAGCAAGAAGATCCTAATGATTATTGTAAAGGAGGTTATCATCTTGTGAAAATT
GGAGATCTATTCAATGGGAGATACCATGTGATCCGAAAGTTAGGCTGGGGACACTTTTCAACAGTATGGTTATCA
TGGGATATTCAAGGGGAAGAAATTTGTGGCAATGAAAGTAGTTAAAAGTGCTGAACATTACACTGAAACAGCACTA
GATGAAATCCGGTTGCTGAAGTCAGTTCGCAATTCAGACCCTAATGATCCAAATAGAGAAATGGTTGTTCAACTA
CTAGATGACTTTAAATATCAGGAGTTAATGGAACACATATCTGCATGGTATTTGAAGTTTTGGGGCATCATCTG
CTCAAGTGATCATCAAATCCAATTATCAGGGGCTTCCACTGCCTTGTGTCAAAAAATTATTTCAGCAAGTGTTA
CAGGGTCTTGATTATTTACATACCAAGTGCCGTATCATCCACACTGACATTAACCAGAGAACATCTTATTGTCA
GTGAATGAGCAGTACATTTCGGAGGCTGGCTGCAGAAGCAACAGAATGGCAGCGATCTGGAGCTCCTCCGCTTCC
GGATCTGCAGTCAGTACTGCTCCCCAGCTAAACCAGCTGACAAAATGTCAAAGAATAAGAAGAAGAAATTGAAG
AAGAAGCAGAAGCGCCAGGCAGAAATTACTAGAGAAGCGAATGCAGGAAATTGAGGAAATGGAGAAAGAGTCGGGC
CCTGGGCAAAAAAGACCAAAACAAGCAAGAAGAAATCAGAGAGTCCTGTTGAAAGACCCTTGAAGAGAACCCACCT
AATAAAATGACCCAAGAAAACTTGAAGAGTCAAGTACCATTGGCCAGGATCAAACGCTTATGGAACGTGATACA
GAGGGTGGTGCAGCAGAAATTAATTGCAATGGAGTGATTGAAGTCATTAATTATACTCAGAACAGTAATAATGAA
ACATTGAGACATAAAGAGGATCTACATAATGCTAATGACTGTGATGTCCAAATTTGAATCAGGAATCTAGTTTC
CTAAGTCCCAAAATGGAGACAGCAGCACATCTCAAGAAACAGACTCTTGTACACCTATAACATCTGAGGTGTCA
GACACCATGGTGTGCCAGTCTTCCTCAACTGTAGGTCACTCATTGAGTGAACAACACATTAGCCAACCTTCAAGAA
AGCATTCCGGGCAGAGATACCCTGTGAAGATGAACAAGAGCAAGAACATAACGGACCCTGGACAACAAAGGAAAA
TCCACGGCTGGAAATTTCTTGTTAATCCCCTTGAGCCAAAAATGCAGAAAAGCTCAAGGTGAAGATTGCTGAC
CTTGGAAATGCTTGTGGCACAACATTTCACTGAAGATATTCAAACAAGGCAATATCGTTCCCTTGGAAAGTTCTA
ATCGGATCTGGCTATAATACCCCTGCTGACATTTGGAGCACGGCATGCATGGCCTTTGAACTGGCCACAGGTGAC
TATTTGTTTGAACCTCATTCAAGGGGAAGAGTACACTCGAGATGAAGATCACATTGCATTGATCATAGAACTTCTG
GGGAAGGTGCCTCGCAAGCTCATTGTGGCAGGAAATATTCCAAGGAATTTTCACCAAAAAGGTGACCTGAAA
CATATCACGAAGCTGAAACCTTGGGGCCTTTTGGAGTTCTAGTGGAGAAGTATGAGTGGTCGAGGAAGAGGCA
GCTGGCTTCACAGATTTCTTACTGCCATGTTGGAGCTGATCCCTGAGAAGAGAGCCACTGCCGCGAGTGTCTC
CGGCACCCTTGGCTTAACCTCCTAAGCCCCCTGCCAGCACCACAGCAGAGATCACACACTGACCCTCCGCCCTTCC
CCTTCAAGCATTTTCTCTCTCCCTTTTCAGGGTGAAGCTCTTCCTTCAAGAGTTCTAGATCTTGTTTTTTTTT
AATCCAACATGTTTCAATTTGGGTTTGCTTACTTGACCTGTGGAGATCCCCACAGCCATTGGGCATCTAGGTGAA
TTTGGCCTTGGTTGGGCTCTGCCAAAGACTAATGGACTAAAATGTGAAACAGCCTCTTGCCCTGTACCTTTCCT
CCCATTAGGACATCCTTTAAATTATAAGCATCCTTTTTGAAAAGAGCTATGAAGGTGTATGAGCCCATCCTTTTA
TTCATTGACTCTAAGAGTCAAATTTCTAGTGCATATCCTATTGCCAGCATAAGGATGAGGAGGGGAAAGGGTC
TTAATTCTATGTACAGCAGAGACATTAACTTGCTGTGTCCGGCTGCATCATCTTCTGGACTGTTTCTGTGTGT
TCTCTGTGTTACATTTTTTCTCTGCACTTTTAAGCTACTGTCTTTTTTAAATAGCTATATGAACACCAAAATTG
GGTACCATTTTATCACTGTTCAAAGCACTGTCAAATTCCTTTCATCCTTTAATAGTTAAGATCTTTGAATCTTCA
GTCTGATTTTTTAATGTAAAGCAAAAACAGAACCATTGAATAGTAATTTCTTGAGAACCTCAGGTGTTCTATAACA
GTCCCTTCTCTGTATGTCTTCTATTACCCTAAGACCAGAGTTATTTTGGTTGGTTGTTTTGTTTTATTTTTGTTT
TTGTATCCATGGCTGGCACTTTTACTCATTGCCTTGAGTTTATTGCCCCATAACTAAAGGATCAGGATGATGGTA
GAACGGAGATCTGGGTTTCAGAGCTTTCCCATTTAAGAAAAATAGATCTTGAGATTCTGATTCTTTTCCAAACAG
TCCCTTCTCTCATGTACAGCTTTTTTCTTTACCTTACCCAAAATCTGGCCTTGAAGCAGTTTTCTCTATGGCT
TTGCCCTTCTGATTTTCTCAGAGGCTCGAGTCTTTAATATAACCCCAAATGAAAGAACCAAGGGGAGGGGTGGGA
TGGCATTTTTTTTTTGTTGGTCTTGTGTTTTGTTTTGTTTTGTTGGTTGGTTGGTTGTTTATTTTTTAAGATTAGCCAT
TCTCTGCTGCTATTTCCCTACATAATGTCAATTTTTAACCATAATTTTGACATGATTGAGATGTACTTGAGGCTT
TTTTGTTTTAATTGAGAAAAGACTTTGCAATTTTTTTTTTAGGATGAGCCTCTCCTAGACTTGACCTAGAATATT
ACATATTCTCTCAGTAAGTAATACTGAAGAGCAAAAGAGAGGCAGGATTGGGGTCACAGCCGCTTCTTCAGCATG
GACCAAGTGGGCCTTGGGGATTGCAGCGTTCTCGAAGTGGCTGTAGGACTCGAATTTACAGAAAGCCACAGAGGT
GCAACTTGAGGCTCTGTAGCAAGCCACCAGTGAGGCTATTGGGTAACCACCTTTCTATACAGGAGATTGGAATC
TACTTTGTCATTTATCCACCACAGTGACAAAGGAAAAGTGGTGCCGTTATGCAATCCATTTAACTCATAAACATA

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FIGURE 1916B

TTACTCTGAGTAACTGGCCAGCCATTTCATCGGATCCTTCATTGGGTACTCCTGAAATCAGACATGTTCTGTAGA
AAGAATTTTAAGTTAGGCTTTCTATGCACCTATCAAGAATCAAGAGAATAGATTGTATCAAACAACGGCAGGGAA
ATCCTTCAGCAATTCTAATCCACTTTGGGTTTTTCAGCTGTTTTTACATCTAAAGCAATAGACTAGAACTGAATTA
TCTTCTACATAGTAAATCACAATTGTGGAATTACAGGAATTCTGGTGATATTAAGGTGAAATAACAAAACACAA
AAGGCCCTATTTTAACAGTTGATGTGACAGTAAGTTTTAATAGAACCTGTAACCTCATTGTTGGAAATGCTTCTCC
ACCAATAAGGGCTTTTTCCCCTATTTAAGGAGCCAGATGGATTGAAAGATGTGGAAATAGGCAGCTGTAGATCT
TGATCTTCCAGGTACCCCATGTACCTTTATTGAGCTTAATTATAATACTGTCAAATTGCCACGATCTCACTAAAG
GATTTCTATTTGCTGTCAGTTAAAAATAAGCCCTAAATACATTTTATTCTTTCTACTGAGGGCATTGTCGTGTT
TTCTTTGTAAATGCCGTACAATAAACAAATTATTTAATAACCTA

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FIGURE 1917

MERKVLALQARKKRTKAKKDKAQRKSETQHRGSAPHSESDLPEQEEEILGSDDDEQEDPNDYCKGGYHLVKIGDL
FNGRYHVIRKLGWGHFSTVWLSWDIQGKKFVAMKVVKSAEHYTETALDEIRLLKSVRNSDPNDPNREMVQLLDD
FKISGVNGTHICMVFEVLGHLLKWI IKS NYQGLPLPCVKKIIQQVLQGLDYLHTKCRIIHTDIKPENILLSVNE
QYIRRLAAEATEWQRSGAPPPSGSAVSTAPQPKPADKMSKNKKKKLKKKQKRQAELLEKRMQEIEEMEKESGPGQ
KRPNKQEESESPVERPLKENPPNKMTOEKLEESSTIGDQTLMERDTEGGAAEINCNGVIEVINYTQNSNNETLR
HKEDLHNANDCDVQNLNQESSFLSSQNGDSSTSQETDSCTPITSEVSDTMVCQSSSTVGQSFSEQHISQLQESIR
AEIPCEDEQEHEHNGPLDNKGKSTAGNFLVNPLEPKNAEKLKVKIADLGNACWHKHFTEDIQTRQYRSLEVLIGS
GYNTPADIWSTACMAFELATGDYLFEPHSGEEYTRDEDHIALIIELLGKVPKRLIVAGKYSKEFFTCKGDLKHIT
KLKFPWGLFEVLVEKEYEWSQEAAAGFTDFLLPMLELIPEKRATAAECLRHPWLNS

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FIGURE 1918A

GGGCCGGCTCGCGGGCGCTGCCAGTCTCGGGCGGCGGTGTCCGGCGCGCGGGCGGCCTGCTGGGCGGGCTGAAGG
GTTAGCGGAGCACGGGCAAGGCGGAGAGTGACGGAGTCGGCGAGCCCCCGCGGCGACAGGTTCTCTACTTAAAAG
ACAATGACTACTGATGAAGGTGCCAAGAACAATGAAGAAAGCCCCACAGCCACTGTTGCTGAGCAGGGAGAGGAT
ATTACCTCCAAAAAGACAGGGGAGTATTAAAGATTGTCAAAAGAGTGGGGAATGGTGAGGAAACGCCGATGATT
GGAGACAAAGTTTATGTCCATTACAAAGGAAAATTGTCAAATGGAAAGAAGTTTGATTCCAGTCATGATAGAAAT
GAACCATTTGTCTTTAGTCTTGCGCAAAGGCCAAGTCATCAAGGCATGGGACATTGGGGTGGCTACCATGAAGAAA
GGAGAGATATGCCATTTACTGTGCAAACCAGAAATATGCATATGGCTCGGCTGGCAGTCTCCCTAAAATTCCCTCG
AATGCAACTCTCTTTTTTGGAGATTGAGCTCCTTGATTTCAAAGGAGAGGATTTATTTGAAGATGGAGGCATTATC
CGGAGAACCACGAAAGGAGAGGGATATTCAAATCCAAACGAAGGAGCAACAGTAGAAATCCACCTGGAAGGC
CGCTGTGGTGGAGGATGTTTACTGCAGAGATGTGGCATTCACTGTGGGCGAAGGAGAAGACCACGACATTCCA
ATTGGAATTGACAAAGCTCTGGAGAAAATGCAGCGGGAAGAACAATGTATTTTATATCTTGGACCAAGATATGGT
TTTGGAGAGGCAGGGAAGCCTAAATTTGGCATTGAACCTAATGCTGAGCTTATATATGAAGTTACACTTAAGAGC
TTCGAAAAGGCCAAAGAATCCTGGGAGATGGATACAAAGAAAAATTGGAGCAGGCTGCCATTGTCAAAGAGAAG
GGAACCGTATACTTCAAGGGAGGCAATACATGCAGCGGGTGATTCAAGTATGGGAAGATAGTGTCTGTTAGAG
ATGGAATATGTTTATCAGAAAAGGAATCGAAAGCTTCTGAATCATTTCTCCTTGCTGCCTTTCTGAACCTGGCC
ATGTGCTACCTGAAGCTTAGAGAATACACCAAAGCTGTTGAATGCTGTGACAAGGCCCTTGGACTGGACAGTGCC
AATGAGAAAGGCTTGATAGGAGGGGTGAAGCCCAGCTGCTCATGAACGAGTTTGAGTCAGCCAAGGGTGACTTT
GAGAAAGTGCTGGAAGTAAACCCCCAGAATAAGGCTGCAAGACTGCAGATCTCCATGTGCCAGAAAAAGGCCAAG
GAGCACAACGAGCGGACCGCAGGATATACGCCAACATGTTCAAGAAGTTTGAGAGCAGGATGCCAAGGAAGAG
GCCAATAAAGCAATGGGCAAGAAGACTTCAGAAGGGGTCACTAATGAAAAAGGAACAGACAGTCAAGCAATGGAA
GAAGAGAAACCTGAGGGCCACGTATGACGCCACGCCAAGGAGGGAAGAGTCCAGTGAACCTCGGCCCTCTCTCAA
TGGGCTTTCCCCCAACTCAGGACAGAACAGTGTTTAATGTAAAGTTTGTATAGTCTATGTGATTCTGGAAGCAA
ATGGCAAAACAGTAGCTTCCCAAAAACAGCCCCCTGCTGCTGCCCGGAGGGTTCACTGAGGGGTGGCACGGGA
CCACTCCAGGTGGAACAAACAGAAATGACTGTGGTGTGGAGGGAGTGAGCCAGCAGCTTAAGTCCAGCTCATTTC
AGTTTCTATCAACCTTCAAGTATCCAATTCAAGGTCCCTGGAGATCATCTAACAAATGTGGGGCTGTTAGGTTTT
ACCTTTGAACCTTTCATAGCACTGCAGAAACCTTTTAAAAAAAATGCTTCATGAATTTCTCCTTCCCTACAGTTG
GGTAGGGTAGGGGAAGGAGGATAAGCTTTGTTTTTAAATGACTGAAGTGCTATAAATGTAGTCTGTTGCATTT
TTAACCAACAGAACCCACAGTAGAGGGGTCTCATGTCTCCCAAGTCCACAGCAGTGTACAGACGTGAAAGCCA
GAACCTCAGAGGCCACTTGCTTGCTGACTTAGCCTCCTCCCAAGTCCCCCTCCTCAGCCAGCCTCCTTGTTGAGA
GTGGCTTTTCTACCACACACAGCCTGTCCCTGGGGGAGTAATCTGTGCTATTCTTAAACACCCCTCAGCAATGATA
ATGAGCAGATGAGAGTTTCTGGATTAGCTTTTCTATTTTCGATGAAGTTCTGAGATACTGAAATGTGAAAAGAG
CAATCAGAATTGTGCTTTTCTCCCCCTCTATTCTTTTAGGGAATAATATCAATACACAGTACTTCTCTCCC
AGCATTGCTACTGCTCAGCTTCTTCTTTTCAATCTTCTGCTATTAAGAAATTAAGACTTGTGCTTACAATAT
TTTTGACCTGGAGTGGATCTATTTACATAGTCATTTAGGATCCATGCAGCTTTTTTGTCTTTTAAAGATTATIG
GCTCATAAGCATATGTATACTGGTTTATGGAACCTTATTACACTCCTCTATCATGCAAAAAAATTTGACTTTT
TAGTACTAAGCTTAATTTTTAAAAACAAAATCTGTAGTGTGACAAATAAATAGTTGCTCTTCTACACTAGGGGT
TTCACCTGCAGGTTTGACACGCAGTTGCTCGCTTTTCTGCCCTGTCAAGCTTCTGTTCTGGCGTGAGTTGTG
AAAGAGTTGAAGACAGCTTCCCATGCCGTACACAGCCAGTAGCCTAAATCTCCAGTACTTGAGCTGACCATTGA
ACTAGGGCAAGTCTTAAATGTGTACATGTAGTTGAATTTCACTCCTTACGGGTAAACAGATTGAGCATGGCTCTC
TATTCCTCAGCCTAAGAAACACTCATGGGAATGCATTTGGCAACCCAAGGAACCATTTGCTTAAACCTGGAACA
TCTCACCTTTTAAATCCTAAAAACACTGGCAGTTATATTTAAATTAGTTTTTATTTTATGATGGTTTTATC
AAAAGACTTTTATTATTAGATTGGGACCCCTTCAAACCTAAAAATCAAGTTATTTCTTTTATAATACTTTTCT
TCCCCATGGAACAAATGGGATCAATTTGTGAGTTTTTCTTTTAAATGATAACTAAAAATCCCTCTAATTTCTCATT
TATGCTTTTGTCTTTTTTATGAAATATTTCTTTTAAAGCCCCAGTCTCACCTACGAAATATGAAGAGCAAAAGC
TACTATAAAGGCCACCTAGCTTTTGCAGATAACAAACAAGAAAGCTATTCCAAGACTCAGATGATGCCAGCTG
TCTCCACGTGTGTATTATGGTTTACCAGGGGAACTGGCAAAAGTGTGTGTGGGAGGGGAAGGGTGTGTGAGT
GGTTCTGAGCAAATAACTACAGGGTGCCATTACCACTCAAGAAGACACTTCACGTATTCTTGTATCAAATTCAA

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FIGURE 1918B

TAATCTTAAACAATTTGTGTAGAAGTCCACAGACATCTTCAACCACCTTTTAGGCTGCATATGGATTGCCAAGT
CAGCATATGAGGAATTAAAGACATTGTTTTTAAAAAAAAAAAAATCATTAGATGCACTTTTTGTGTGTTCTTTA
AATAAATCCAAAAAAAAATGTGAAAAAAAAA

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FIGURE 1919

MTTDEGAKNNEESPTATVAEQGEDITSKKDRGVLKIVKRVNGEETPMIGDKVYVHYKGKLSNGKKFDSSHDRNE
PFVFSLGKGQVIKAWDIGVATMKKGEICHLLCKPEYAYGSAGSLPKIPSNATLFFEIELLDFKGEDLFEDGGIIR
RTKRKGEYSNPNEGATVEIHLEGRCGGRMFDCRDVAFTVGEGEDHDIPIGIDKALEKMQRREEQCILYLGPYGF
GEAGKPKFGIEPNAELIYEVTLSFEKAKESWEMDTKEKLEQAAIVKEKGTVYFKGGKYMQAVIQYGKIVSWLEM
EYGLSEKESKASESFLLAFLNLAMCYLKLREYTKAVECCDKALGLDSANEKGLYRRGEAQLLMNEFESAKGDFE
KVLEVPQNKAARLQISMCQKKAKEHNERDRRIYANMFKKFAEQDAKEEANKAMGKKTSEGV TNEKGTDSQAMEE
EKPEGHV

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FIGURE 1920

CGCCACCATGGTGTGCGTGAACGTCCTGGCCGATGCTCTCAAGAGCATCAACAATGCCGAAAAGAGAGGCCAAACG
CCCAGTGCTTATTAGGCCGTGCTCCAAACTCATCGTCCGGTTTCTCACTGTGATGATGAAGCATGGTTACATTGG
CGAATTTGAAATCATTGATGATCGCAGAGCTGGGAAAATTGTTGCGAACCTCACAGGCAGGCTAAACAAGTGTGG
AGTGATCAGCCCCAGATTCGGTGTGCAACTCAAAGATCTAGAAAATGGCAGAATAATCTGCTTCCATCCCACCAG
TTTGTTTTATTGTACTGACAACCTCAGCTGGCATCATGGACCATGAAGAAGCAAGACGAAAACACACAGGAGGG
AAAATCCTGGGATTCTTTTCTAGGGATGTAATACATATATTTACAAATAAAATGTCTCATGGAAAAAAAAGAAA
AAAGACAGGAAAAAAAAAAAAAAAAAAAAAAT

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FIGURE 1921

GCCTCCCGCTCCAGCCCGGGCTCATTCCGCACATTCCGGCCAGCCCCCTCCCCACGACCCCCCTTCCCCGGCCCCC
CTTGCGGCTCCCTCGGGCCCGCGGAGCGGGCCCGGCGGAGCGCCCCGCGAGCTCGGACCAGGCTCAGCCGCCC
AGTGGGCTCAGGCCCAGAGCCCAGAGCAACCAGCACAATAGCGTCCAACAGCTGGAACGCCAGCAGCAGCCCCGG
GGAGGCCCCGGGAGGATGGGCCCCGAGGGCCTGGACAAGGGGCTGGACAACGATGCGGAGGGCGTGTGGAGCCCCGA
CATCGAGCAGAGCTTCCAGGAGGCCCTGGCCATCTACCCGCCCTGCGGCCGGCGGAAGATCATCTGTCTCAGACGA
GGGCAAGATGTACGGCCGAAATGAGTTGATTGCACGCTATATTAACTGAGGACGGGGAAGACTCGGACGAGAAA
ACAGGTGTCCAGCCACATACAGGTTCTAGCTCGGAAGAAGGTGCGGGAGTACCAGGTTGGCATCAAGGCCATGAA
CCTGGACCAGGTCTCCAAGGACAAAGCCCTTCAGAGCATGGCGTCCATGTCTCTGCCAGATCGTCTCTGCCAG
TGTCTGACAGAACAGTTTACGCCACCTTCCCCCTTGCCCCAGGCCGTCTTCTCCACTTCTCGCGGTTCTGGAG
CAGCCCCCTCTCCTGGGACAGCAGCCTGGACCTCTCAGGACATCAAGCCCTTTGCACAGCCAGCCTACCCCAT
CCAGCCGCCCTGCGGCCGACGCTCAGCAGTTATGAGCCCTGGCCCCGCTCCCCCTCAGCTGCTGCCTCTGTGCC
TGTGTGGCAGGACCGTACCATTGCCTCCTCCCGGCTGCGGCTCCTGGAGTATTACGCTTCATGGAGGTGCAGCG
AGACCCTGACACGTACAGCAAACACCTGTTTGTGCACATCGGCCAGACGAACCCCGCTTCTCAGACCCACCCCT
GGAGGCAGTAGATGTGCGCCAGATCTATGACAAATCCCCGAGAAAAAGGGAGGATTGAAGGAGCTCTATGAGAA
GGGGCCCCCTAATGCCTTCTTCTTGTCAAGTTCTGGGCCGACCTCAACAGCACCATCCAGGAGGGCCCGGGAGC
CTTCTATGGGGTCAGCTCTCAGTACAGCTCTGCTGATAGCATGACCATCAGCGTCTCCACCAAGGTGTGCTCCTT
TGGCAAACAGGTGGTAGAGAAGGTGGAGACTGAGTATGCCAGGCTGGAGAACGGGCGCTTTGTGTACCGTATCCA
CCGCTCGCCCATGTGCGAGTACATGATCAACTTCATCCACAAGCTGAAGCACCTGCCCGAGAAGTACATGATGAA
CAGCGTGTGGAGAACTTACCATCCTGCAGGTGGTACAGAGCCGGGACTCCCAGGAGACCCTGCTTGTCTATTGC
TTTTGTCTTCGAAGTCTCCACCAGTGAGCACGGGGCCAGCACCATGTCTACAAGCTCGTCAAAGACTAGGGTGC
CCTCTGCGCTCCTTAAGGATGCAGGGTGAGCATCTCTCTCCACACCTGCCTGGCACCCCTGGGGGGGTCCAGG
ATTGAGGATTCTACCTGCCAGGCCTCAGGCCCAGGACCCAGGAGGCTCCCCACCTACCCAGCACACACAC
TCCCTGCCACTGTTCTGCGCTTTAATTGTGGGAGAAGAGAGGAGAGGAGGGCTCAGCGGTGGGGCAGCCTGTCCG
GGGCGCTGACCCACCATCACCTGCTCTGCCAGCCTGCGGTGACCTCAGAGAGGTGGGGATAGGGGACACCTTC
AGCCTCCAGCATGTGTGGCCACTGTACCCCCACCCACCTTGGGGGAGCATGATGGGCAGGTGAGGGCAGGATGG
AGACCAAGGGAGTCAGTGAGCAGAGGCCCTGGGAGTGTCCGTTGGGGTTGGACTGAGGACAGAGGGGCCACAC
TTCCTTGCCCCCTTGTGTCCCAGGCCTGGTGCCAGACTCCTTGCTATGGCTTGTGTGGTCTCAGACTCCGCACA
GCGAGCGTAGGTCTCTGGGTTTTCAGATGAAGTGCCAGGCTCCAGGAAGTTGAGGGACCCACAGGAGAGGTGGGC
AGAGCTGGAGTTCTCATCCAGGGCTGCTTGTCCCCAGAGCCCAGGTTTATACTACCTCCCTGGGGCGGGGGCTGG
CCGACGGGTAGGGGAGAGGCTCTGCAGTGTGGAGTGGAGCCTCATCGAGGGGCGCTGGGTTAGGGGAGCACCTGT
TTCAGACTGGGCATGAAGAAGGGAGCACAGCAGCTACTAGACCCATTAGCACCTCATTAGCCCACAAGCCAGCC
AGGGGCCCCAGGAAGATGGGGCACCCCCAGCACCCTCCAGATTGAGAGCAAGGTAGAGGAAGGAGTCCAGCCT
CTGGGCAGACCAGAGGCCAGAGGGAGAGTAGCAGAAGGCTTTTGATTTTCTCTTGCCTGAGGCTTGAATCT
GACAAACCTTGGTGGGCACTGCTCCCTTAGGTTCTTCCCCACCTCAATCTACCTGCCTAGAGTAGCAGCTCCCA
GACCCAGTTCTGGGACTGAAGGTTAACCCCTTACCTGCTGTCCCTTCTTAACACCCAGGCCCCAGAGCCAGCTG
GGCCTGTCCAGCAGCCACCTGTGGGTATTTATGAGTTTCATATGAAGTACTGTGCCCCCTTCCCTTCTCATCCCG
ACCCTGCCCCAGCTTCTGAAGGTCCTCACTGTTTGCATATCGCTCAGGCCACCTCCAAACCCACCTAGGTTTT
ATAATGTATATTATATATTTTTTTGTGTATTTTTAAATCCAGCTGTGATGGGTTATATCATAAATGCAGCTTGG
GGTTGGAGCAGGGGCCCTCAAAGGCCAGCTCCTGCTC

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FIGURE 1922

GCGGCGTGAGAAGCCATGAGCAGCAAAGTCTCTCGCGACACCCTGTACGAGGCGGTGCGGGAAGTCCTGCACGGG
AACCAGCGCAAGCGCCGCAAGTTCTGGAGACGGTGGAGTTGCAGATCAGCTTGAAGAACTATGATCCCCAGAAG
GACAAGCGCTTCTCGGGCACCGTCAGGCTTAAGTCCACTCCCCGCCCTAAGTTCTCTGTGTGTGTCTGGGGGAC
CAGCAGCACTGTGACGAGGCTAAGGCCGTGGATATCCCCACATGGACATCGAGGCGCTGAAAAAACTCAACAAG
AATAAAAACTGGTCAAGAAGCTGGCCAAGAAGTATGATGCGTTTTTGGCCTCAGAGTCTCTGATCAAGCAGATT
CCACGAATCCTCGGCCCAGGTTTAAATAAGGCAGGAAAGTTCCCTTCCCTGCTCACACACAACGAAAACATGGTG
GCCAAAGTGGATGAGGTGAAGTCCACAATCAAGTTCCAAATGAAGAAGGTGTTATGTCTGGCTGTAGCTGTTGGT
CACGTGAAGATGACAGACGATGAGCTTGTGTATAACATTACCTGGCTGTCAACTTCTTGGTGTCTTGCTCAAG
AAAACTGGCAGAATGTCCGGGCCTTATATATCAAGAGCACCATGGGCAAGCCCCAGCGCCTATATTAAGGCACA
TTTGAATAAATTCTATTACCAGTTC

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FIGURE 1923

MSSKVSRTLYEAVREVLHGNQRKRRKFLETVELQISLKNYDPQDKRFSGTVRLKSTPRPKFSVCVLGDQQHCD
EAKAVDIPHMDIEALKKLNKNKKLVKKLAKKYDAFLASESLIKQIPRILGPGLNKAGKFPSLLTHNENMVAKVDE
VKSTIKFQMKKVLCLAVAVGHVKMTDDELVYNHILAVNFLVSLKKNWQNVRALYIKSTMGKPQRLY

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FIGURE 1924

GTGAGTTTACCCCTATGAGACTGTGAGAGGCCCGGGGCTACCTCAAAGGAGCGGGGTCGCGAAGCTAGCTAGCA
GCGGCCCCCTCCAGGTCCCCGGGCGCGGCGCGGCGGCTTGGTTGTGAAGAGCGGGGAAGCGGGTGTC
CGGTCCCCGCCATGGAGGGCATGGACGTAGACCTGGACCCGGAGCTGATGCAGAAATTTCAGCTGCCTGGGCACCA
CCGACAAGGACGTGCTCATCTCCGAGTTCAGAGGCTGCTCGGCTTCCAGCTCAATCCTGCCGGTTGCGCCTTCT
TCCTGGACATGACCAACTGGAACCTACAAGCAGCAATTGGCGCCTATTATGACTTTGAGAGCCCAAACATCAGTG
TGCCCTCTATGTCCTTTGTTGAAGATGTCACCATAGGAGAAGGGGAGTCAATACCTCCGGATACTCAGTTTGTA
AAACATGGCGGATCCAGAATTCTGGGGCAGAGGCCTGGCCTCCAGGGGTTTGTCTTAAATATGTCGGGGGAGACC
AATTTGGACATGTGAACATGGTGATGGTGAGATCGCTAGAGCCCAAGAGATTGCAGATGTCAGCGTCCAGATGT
GCAGCCCCAGCAGAGCAGGAATGTATCAGGGACAGTGGCGGATGTGCACTGCTACAGGACTCTACTATGGAGATG
TCATCTGGGTGATTCTCAGTGTGGAGGTGGGTGGACTTTTAGGAGTAACGCAGCAGCTGTCATCTTTGAAACGG
AGTTCAACACACAGCCGCATCGTAAGGTAGAAGGAACTTCAACCCTTTTGCCTCTCCCCAAAAGAACCGACAAT
CAGATGAAAACAACCTTAAAAGACCCTGGGGGCTCCGAGTTCGACTCGATCAGCAAAAACACATGGGCTCCTGCTC
CTGACACATGGGCTCCTGCTCCTGACCAAACCTGAGCAAGACCAGAATAGACTGTCACAGAACTCTGTAAATCTGT
CTCCAGCAGTCACGCAAACAACCTTATCAGTAGTGACTTACAGTAAGGGGCTCCATGGGCCTTACCCCTTCGGCC
AGTCTTAAACGGGTGTCAGCAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1925

MEGMDVDLDPELMQKFSCLGTTDKDVLISEFQRL LGFQLNPAGCAFFLDMTNWNLQAAIGAYYDFESPNISVPSM
SFVEDVTIGEGESIPPD TQFVKTWRIQNSGAEAWPPGVCLKYVGGDQFGHVNMMVRSLEPQEIADVSVQMCSPS
RAGMYQGQWRMCTATGLYYGDVIWVILSVEVGGLLGVTQQLSSFETEFNTQPHRKVEGNFNPFPASPQKNRQSDEN
NLKDPGGSEFDSISKNTWAPAPDTWAPAPDQTEQDQNRLSQNSVNLSPSSHANNLSVVTYSKGLHGYPYFPGQS

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FIGURE 1926

GGCACGAGGGGGTGAGGGTCTGCCTGCCTGTTTCTGTCTGGGTGTCTGAGTTCCAAAAATGTGTGTTGTTTGT
CCTCCTCATCCTCTTCTGAGACTGTTGTTTTTTTAGAGCTTGATTGTGGGAGAAAAGCTTGTGTGAAATTCCTC
TTCACCTCCCCACCCCCAAAAAATAAAAGGGGGCATAAACTTTATTCCACTGGAGAAGCCCTGGGGGTGGCTGG
AGCCAGCCTGCTGAGAAGCGTGGTGCAGCTGGGTCTGGGACTTCACTAGAGCTTACTCTGGAGCACCTATTTTCT
GTGCACATGGGAGTGCTCCACTCCCTAGCAGAGCAGAGGGAAGTCTCTGCCAGGTACCCACGCCACAGGCCTCAG
GATGGCTTTTTGTCTGAGGGCCTCATTAGGCCCAGACTGCTGCTGCTGGTACCAGTCTCCTGAGACACTGCCTCC
CTGGAGCCCATGCGATGCCCAGCTGTTCTTACTGCTTAGTAGCCTTGAAGCAGCACATCTCCACTGTCCCTGGCAG
GATTGTGGGAGGCTTACAACCCCTGCTTTCCTGACTTCCTCTTCTGCCCAACACTGGGTGCCCTTCCCAGTTT
CCCAGCAGGGGCTTCATGGGCCACCGTCAGTGGGTCTGGGCCTGCCAGAGTCGTCTTGCTCTTCTCTTGCTTCT
AGGCAACCACACTTGGCAAGTTAAATGTCCCAAGCACCTTGTCTCCCTTCCCAAGAACAACCATTTCTGTGCAC
ATCCTTGGAGGCGAGATGAGCTCCTTGAGAGGGCCAGAGTAAGTGCAAGTCATGGAGTGCAGGCAGAGGGGTCC
ATGGCTTCCCCAGCCCAGGGAGGGTATCAGTATCATTCTCTCTCTCCCTCACTGGTATGGGTTCAGAGCAAT
GCCTAGGGCCCTCTCTGCTCCCTGCCTAGTGGGGTGGTAGTGGCTACCTCTCAGCCCCAATAGTCCCTGCTCC
TCTTAGAATCTTACCAAGTGGCAGGCCACCTCTGGGCAGGACCACCTGCGTCTGGCACCCAGGAGGTGAGGCAG
ACACCATGGTTAGGTGATAGGGTCTGAACCCAGTTGGGGAGACAGAGGGGTTGAGACTTGGGAAGAATCTGTGAG
TGTGCATGGAGTGGGTGTGTGTGTGGATGGATGTGCACGTGTGCATGCTTTTTTCTTTTTGCCGTGAGGAC
AGTTGAATTTGGGGCATTTTCTACAAGAAGCAGTCAGCCTTCTCTCCCCATAAGGACTGGCTGTAACTTAAG
CCCATCAAAGTTACTTCCAGCCTGGAGAGAACCTCACCAACAGCTGGTGTGGCCTGAGGGTGGCCATGGTGGGA
AATGGGCATGAGAATAAATACCTCCCCAAATTCAATCTGAGCCCAGCAGGAGAGGATGGTAGGGTTGCCAGGGCT
CAGAAGTGCAAGCTGATTACTACCCCCACCCTGCCTCGCCGCACCTTTCCTTTGTTTCTTGGGTGAATGCAGGA
GCAGCAGTGGCTGCCCTTCCACCTGGACAGTGGTGTGTGTAGAAAGCCAGCTGGATGTTTGTGGTGGGGCCTCA
TGGTGCCTAGGAGGAGATAAAGATGAGGAGGTTTTTCCTTATTGTATAAATGAATATTTGTATGATTAAATTAAC
ACACACACCAAAAAAAAAAAAAAAAAA

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FIGURE 1927

MAFCLRASLGPDCCCWYQSPETLPPWSPCMPSCSYCLVALKQHISTVPGRIVGGFTTPAFLTSSSAQHWVPLPSF
PAGASWATVSGSGPARVVLLFLLLLGNHTWQVKCPKHLVSLPKNKPFLECTSLEAR

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FIGURE 1928

AGAGTCGTCTTGCTCTTCCTCTTGCTTCTAGGCAACCACTTGGCAAGTTAAATGTCCCAAGCACCTTGTCTCC
CTTCCAAGAACAACCATTTTTTCTTTTTGCCGTGAGGACAGTTGAATTTGGGGCATTTTTCTACAAGAAGCA
GTCAGCCTTCTCTCCCCATAAGGACTGGCTGTAACCTTAAGCCCATCAAAGTTACTTCCAGCCTGGAGAGAACC
TCACCAAACAGCTGGTGTGGCCTGAGGGTGGCCATGGTGGGAAATGGGCATGAGAATAAATACCTCCCCAAATTC
AATCTGAGCCCAGCAGGAGAGGATGGTAGGGTTGCCAGGGCTCAGAAGTGCAAGCTGATTACTACCCCCACCCTG
CCTCGCCGCACCTTTCCTTTGTTTCCTTGGGTGAATGCAGGAGCAGCAGTGGCTGCCCTTCCCACCTGGACAGTG
GTGTGTGTAGAAAGCCAGCTGGATGTTTGTGGTGGGGCCTCATGGTGCCTAGGAGGAGATAAAGATGAGGAGGTT
TTTCCTTATTGTATAAATGAATATTGTATGATTAAATTAACACACACACCAAAAAAA

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FIGURE 1929

GTCTGACTTCCTCCCAGCACATTCTGCACTCTGCCGTGTCCACACTGCCCCACAGACCCAGTCTCCAAGCCTG
CTGCCAGCTCCCTGCAAGCCCCCTCAGGTTGGGCCCTTGCCACGGTGCCAGCAGGCAGCCCTGGGCTGGGGGTAGGG
GACTCCCTACAGGCACGCAGCCCTGAGACCTCAGAGGGCCACCCCTTGAGGGTGGCCAGGCCCCAGTGGCCAAC
CTGAGTGTCTGCTCTGCCACCAGCCCTGCTGGCCCCCTGGTTCCGCTGGCCCCCAGATGCCTGGCTGAGACACGC
CAGTGGCCCTCAGCTGCCCACACCTCTTCCCGGCCCTGAAGTTGGCACTGCAGCAGACAGCTCCCTGGGCACCG
GCAGCTAACAGACACAGCCGCCAGCCCAAACAGCAGCGGCATGGGCAGCGCCAGCCCGGGTCTGAGCAGCGTATC
CCCCAGCCACCTCCTGTGCCCCCGACACGGTGTGCGGGACAGGCTTGGAGAAGGCGGCAGCGGGGGCAGTGGG
TCTCGAGAGACGGGACTGGAGTCCCAGTCCACCCGCCACGCCGAGCAGGGCCTGTCCGCCTTCTACCTCTCCTA
CTTTGACATGCTGTACCCTGAGGACAGCAGCTGGGCAGCCAAGGCCCTGGGGCCAGCAGTCGGGAGGAGCCACC
TGAGGAGCCTGAGCAGTGGCCGGTCATTGACAGCCAAGCCCCAGCGGGCAGCCTGGACTTGGTGGCCGGCGGGCT
GACCTTGGAGGAGCACTCGCTGGAGCAGGTGCAGTCCATGGTGGTGGGCGAAGTGCTCAAGGACATCGAGACGGC
CTGCAAGCTGCTCAACATCACCGCAGATCCCATGGACTGGAGCCCCAGCAATGTGCAGAAGTGGCTCCTGTGGAC
AGAGCACCATAACCGGTGCCCCCATGGGCAAGGCCTTCCAGGAGCTGGCGGGCAAGGAGCTGTGCGCCATGTC
GGAGGAGCAGTTCGCCCAGCGCTCGCCCCCTGGGTGGGGATGTGCTGCACGCCCACCTGGACATCTGGAAGTCAGC
GGCCTGGATGAAAGAGCGGACTTCACCTGGGGCGATTCACTACTGTGCCTCGACCAGTGAGGAGAGCTGGACCGA
CAGCGAGGTGGACTCATCATGCTCCGGGCAGCCCATCCACCTGTGGCAGTTCCTCAAGGAGTTGCTACTCAAGCC
CCACAGCTATGGCCGCTTCATTAGGTGGCTCAACAAGGAGAAGGGCATCTTCAAAATTGAGGACTCAGCCCAGGT
GGCCCGGTGTGGGGCATCCGCAAGAACCGTCCCGCCATGAACTACGACAAGCTGAGCCGCTCCATCCGCCAGTA
TTACAAGAAGGGCATCATCCGGAAGCCAGACATCTCCAGCGCCTCGTCTACCAAGTTCGTGCACCCCATCTGAGT
GCCTGGCCCAGGGCCTGAAACCCGCCCTCAGGGGCCTCTCTCCTGCCTGCCCTGCCTCAGCCAGGCCCTGAGATG
GGGAAAACGGGCAGTCTGCTCTGCTCTGACCTTCCAGAGCCCAAGGTCAGGGAGGGGCAACCAACTGCCCC
AGGGGATATGGTCTCTGGGGCCTTCGGGACCATGGGGCAGGGGTGCTTCCTCCTCAGGCCAGCTGCTCCCC
TGGAGGACAGAGGGAGACAGGGCTGCTCCCCAACACCTGCCTCTGACCCAGCATTTCCAGAGCAGAGCCTACAG
AAGGGCAGTGACTCGACAAAGGCCACAGGCAGTCCAGGCCTCTCTGCTCCATCCCCCTGCCTCCCATTCTGCA
CCACACCTGGCATGGTGCAGGGAGACATCTGCACCCCTGAGTTGGGCAGCCAGGAGTGCCCCCGGAATGGATAA
TAAAGATACTAGAGAACTG

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FIGURE 1930

MGSAS PGLSSVSPSHLLLPD TVSRTGLEKAAAGAVGLERRDWSPSPPATPEQGLSAFYLSYFDMLYPEDSSWAA
KAPGASSREEPPEEPEQCPVIDSQAPAGSLDLVPGGLTLEEHSLQVQSMVVGEVLKDIETACKLLNITADPMDW
SPSNVQKLLWTEHQYRLPPMGKAFQELAGKELCAMSEEQFRQRSPLGGDVLHAHLDIWKSAAWMKERTSPGAIH
YCASTSEESWTDSEVDSSCSGQPIHLWQFLKELLKPHSYGRFIRWLNKEKGIFKIEDSAQVARLWGIRKNRPAM
NYDKLSRSIRQYYKGIIRKPDISQRLVYQFVHPI

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FIGURE 1931

CGGCGGCCGAGCTCGCGCATCCCAGCCATCACTCTTCCACCTGCTCCTTAGAGAAGGGAAGATGAGTGAGTCGAG
CTCGAAGTCCAGCCAGCCCTTGGCCTCCAAGCAGGAAAAGGACGGCACTGAGAAGCGGGGCCGGGGCAGGCCGCG
CAAGCAGCCTCCGGTGAGTCCCGGGACAGCGCTGGTAGGGAGTCAGAAGGAGCCCAGCGAAGTGCCAAACACCTAA
GAGACCTCGGGGCCGACCAAAGGGAAGCAAAAACAAGGGAGAAGGAGGAAGAGGAGGGCATCTCGCAGGAGTCTT
CGGAGGAGGAGCAGTGACCCATGCGTGCCGCCCTGCTCCTCACTGGAGGAGCAGCTTCCTTCTGGGACTGGACAGC
TTTGCTCCGCTCCACCGCCCCACCCCTTCCCGAGGCCACCATCACCACCGCCTCTGGCCGCCACCCCATCT
TCCACCTGTGCCCTCACCACCACACTACACAGCACACCAGCCGCTGCAGGGCTCCCATGGGCTGAGTGGGGAGCA
GTTTTCCCTGGCCTCAGTTCCCAGCTCCCCCGCCACCCACGCATACACATGCCCTCCTGGACAAGGCTAA
CATCCCACTTAGCCGCACCCTGCACCTGCTGCGTCCCCACTCCCTTGGTGGTGGGGACATTGCTCTCTGGGCTTT
TGGTTTGGGGCGCCCTCTCTGCTCCTTCACTGTTCCCTCTGGCTTCCCATAGTGGGGCTGGGAGGGTTCCCTT
GGCCTTAAAGGGGCCCAAGCCCCATCTCATCCTGGCAGGCCCTACTCCACTGCCCTGGCAGCAGCAGGTGTGGC
CAATGGAGGGGGTGCTGGCCCCCAGGATTCCCCCAGCCAAACTGTCTTTGTACCACGTGGGGCTCACTTTTCA
TCCTTCCCCAACTTCCCTAGTCCCGTACTAGGTTGGACAGCCCCCTTCGGTTACAGGAAGGCAGGAGGGGTGAG
TCCCTACTCCCTCTCACTGTGGCCACAGCCCCCTTGCCCTCCGCCCTGGGATCTGAGTACATATTGTGGTGATG
GAGATGCAGTCACTTATTGTCCAGGTGAGGCCCAAGAGCCCTGTGGCCGCCACCTGAGGTGGGCTGGGGCTGCTC
CCCTAACCCCTACTTTGCTTCCGCCACTCAGCCATTTCCTCCCTCCTCAGATGGGGCACCATAACAAGGAGCTCAC
CCTGCCGCTCCCAACCCCCCTCCTGCTCCTCCCTGCCCCCAAGGTTCTGGTTCCATTTTCTCTGTTCACAA
ACTACCTCTGGACAGTTGTGTTGTTTTTGTTCATGTTCCATTCTTCGACATCCGTCATTGCTGCTGCTACCAG
CGCCAAATGTTTCATCTCATTGCCTCCTGTTCTGCCCCAGATCCCCTCCCCCAAGATACTCTTTGTGGGGAAGAG
GGGCTGGGGCATGGCAGGCTGGGTGACCGACTACCCAGTCCCAGGGAAGGTGGGGCCCTGCCCTAGGATGCTG
CAGCAGAGTGAGCAAGGGGGCCCAAATCGACCATAAAGGGTGAGGGGCCACCTCCTCCCCCTGTTCTGTGGGG
AGGGGTAGCCATGATTTGTCCCAGCCTGGGGCTCCCTCTCTGGTTTCCTATTTGCAGTTACTTGAATAAAAAAA
TATCCTTTTCTGG

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FIGURE 1932

GGTGGCCACAGAGCAACTTCCTCTAGAGGGAGCTGATTGGAGCCGGGTGCCGCTGGCACCTCTATGATCACTGGA
GTCTCGCGGGTCCCTCGGGCTGCACAGGGACAAGTAAAGGCTACATCCAGATGCCGGGAATGCACTGACGCCCCAT
TCCTGGAAACTGGGCTCCCACTCAGCCCCCTGGGAGCAGCAGCCGCCAGCCCCCTCGGGACCTCCATCTCCACCCTG
CTGAGCCACCCGGGTGGGCCAGGATCCCGGCAGGCTGATCCCGTCCCTCCACTGAGACCTGAAAAATGGCTTCGG
GGCAAGGCCCAGGTCCTCCAGGCAGGAGTGCGGAGAGCCTGCCCTGCCCTCTGCTTCTGCAGGAACAGGAGGCT
GAAGGGGTGGCTGCCCTGCCGACCCAGAGATGGTCACCTTACCTCTGCAACCTACAGCACCATGGGGCAGGTGG
GACGGCAGCTCGCCATCATCGGGGACGACATCAACCGACGCTATGACTCAGAGTTCCAGACCATGTTGCAGCACC
TGCAGCCCACGGCAGAGAATGCCTATGAGTACTTCACCAAGATTGCCACCAGCCTGTTTGAGAGTGGCATCAATT
GGGGCCGTGTGGTGGCTCTTCTGGGCTTCGGCTACCGTCTGGCCCTACACGTCTACCAGCATGGCCTGACTGGCT
TCCTAGGCCAGGTGACCCGCTTCGTGGTTCGACTTCATGCTGCATCACTGCATTGCCCGGTGGATTGCACAGAGGG
GTGGCTGGGTGGCAGCCCTGAACCTTGGGCAATGGTCCCATCCTGAACGTGCTGGTGGTTCTGGGTGTGGTTCTGT
TGGGCCAGTTTGTGGTACGAAGATTCTTCAAATCATGACTCCCAAGGGTGCCCTTTGGGGTCCCGGTTTCAGACCC
CTGCCCTGGACTTAAGCGAAGTCTTTGCCTTCTCTGTTCCCTTGCAAGGGTCCCCCTCAAGAGTACAGAAGCTTT
AGCAAGTGTGCACTCCAGCTTCGGAGGGGCCCTGCGTGGGGGCCAGTCAGGCTGCAGAGGCACCTCAACATTGCA
TGGTGCTAGTGGGCCCTCTCTCTGGGCCCAGGGGCTGTGGCCGTCTCCTCCCTCAGCTCTCTGGGACCTCCTTAG
CCCTGTCTGCTAGGCGCTGGGGAGACTGATAACTTGGGGAGGCAAGAGACTGGGAGCCACTTCTCCCCAGAAAGT
GTTTAAACGGTTTTAGCTTTTTATAATACCCCTGTGAGAGCCCATTCACCATTTCTACCTGAGGCCAGGACGTCT
GGGGTGTGGGGATTGGTGGGTCTATGTTCCCCAGGATTGAGCTATTCTGGAAGATCAGCACCCTAAGAGATGGGA
CTAGGACCTGAGCCTGGTCCCTGGCCGTCCCTAAGCATGTGTCCAGGAGCAGGACCTACTAGGAGAGGGGGGCCA
AGGTCTTGCTCAACTCTACCCCTGCTCCCATTCCTCCCTCCGCCATACTGCCTTTGCAGTTGGACTCTCAGGGA
TTCTGGGCTTGGGGTGTGGGGTGGGGTGGAGTCGCAGACCAGAGCTGTCTGAACTCACGTGTCAGAAGCCTCCAA
GCCTGCCTCCCAAGGTCCTCTCAGTTCTCTCCCTTCCTCTCTCCTTATAGACACTTGCTCCCAACCCATTCACTA
CAGGTGAAGGCTCTCACCCCATCCCTGGGGGCCTTGGGTGAGTGGCCTGCTAAGGCTCCTCCTTGCCCAGACTA
CAGGGCTTAGGACTTGGTTTGTATATCAGGGAAAAGGAGTAGGGAGTTTCATCTGAGGGTTCTAAGTGGGAGAA
GGACTATCAACACCACTAGGAATCCAGAGGTGGGATCCTCCCTCATGGCTCTGGCACAGTGTAATCCAGGGGTG
TAGATGGGGGAAGTGTGAATACTTGAACCTGTTCCTCCCTCCATGCTCCTCACCTGTCTAGGTCTCCTCAG
GGTGGGGGTGACAGTGCCCTTCTCTATTGGGCACAGCCTAGGGTCTTGGGGTCAAGGGGGAGAAGTTCTTGATT
CAGCCAAATGCAGGGAGGGGAGGCAGATGGAGCCCATAGGCCACCCCTATCCTCTGAGTGTTTGGAAATAAACT
GTGCAATCCCCTC

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FIGURE 1933

MGQVGRQLAIIGDDINRRYDSEFQTMLQHLQPTAENAYEYFTKIATSLFESGINWGRVVALLGFGYRLALHVVYQH
GLTGFLGQVTRFVVDFMLHHCIARWIAQRGGWVAALNLGNPILNVLVVLGVVLLGQFVVRFFKS

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FIGURE 1934

GGCCGGAGCCGTGCGAGTTCTCTACCCTGCTTCGCGAGCGGGCGAGAGAACGCGAGTCCCAGGATCCCCGGCACC
CAGTTCTCTTCCACTGCATGATTTTTCTTTGACCGGGTATTCCCACCAGGAAGTGGACAGGATGAAGTGTTTGA
AGAGATTGCCATGCTTGTCCAGTCAGCCCTGGATGGCTATCCAGTATGCATCTTGCCTATGGCCAGACAGGCAG
TGGCAAGACCTTCACAATGGAGGGTGGGCCTGGGGGAGACCCCCAGTTGGAGGGGCTGATCCCTCGGGCCCTGCG
GCACCTCTTCTCTGTGGCTCAGGAGCTGAGTGGTCAGGGCTGGACCTACAGCTTGTAGCAAGCTACGTAGAGAT
CTACAATGAGACTGTCCGGGACCTGCTGGCCACTGGAACCCGGAAGGGTCAAGGGGGCGAGTGTGAGATTGCGCG
TGCAGGGCCAGGGAGTGAGGAGCTCACTGTCCACCAATGCTCGATATGTCCCTGTCTCCTGTGAGAAAGAAGTGGA
CGCCCTGCTTCATCTGGCCCGCCAGAATCGGGCTGTGGCCCGCACAGCCAGAAATGAACGGTCATCACGCAGCCA
CAGTGTATTCCAGCTACAGATTTCTGGGGAGCACTCCAGCCGAGGCCTGCAGTGTGGGGCCCCCTCAGTCTTGT
GGACCTGGCCGGGAGTGAGCGACTTGACCCCGGCTTAGCCCTCGGCC

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FIGURE 1935

MDPQRSPLLEVKGNIELKRPLIKAPSQLPLSGSRLKRRPDQMEDGLEPEKKRTRGLGATTKITTSHPRVPSLTTV
PQTQGQTTAQKVSCKTGPRCSTAIATGLKNQKPVPAVPVQKSGTSGVPPMAGGKKPSKRPAPWDLKGQLCDLNAEL
KRCRERTQTLDQENQQQLDQLRDAQQVKALGTERTTLEGHAKVQAQAEQGGQELKNLRACVLELEERLSTQEG
LVQELQKKQVELQEERRGLMSQLEEKERRLQTSEALSSSQAEVASLRQETVAQAALLTEREERLHGLEMERRRL
HNQLQELKGNIRVFCRVRPVLPGIPTPPPGLLLFPSGPGGSDPPTRLSLSRSDERRGTLGAPAPPTRHDFSFD
RVFPPGSGQDEVFEEIAMLVQSALDGYPCIFAYGQTGSGKFTMEGGPGGDPQLEGLIPRALRHLFSVAQELSG
QGWYTSFVASVVEIYNETVRDLLATGTRKGQGGCEIRRAGPGSEELTVTNARYVPVSCEKEVDALLHLARQNRA
VARTAQNERSRSRSHSVFQLQISGEHSSRGLQCGAPLSLVDLAGSERLDPGLALGPGERERLRETQAINSSLSTLG
LVIMALSNKESHVPYRNSKLTYYLQNSLGGSAKMLMFVNISPLEENVSESLNSLRFASKVNQCVIGTAQANRK

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FIGURE 1936

CTCTCGGCTTTCGGCTCGGAGGAGGCCAAGGTGCAACTTTCTTCGGTCATCCTGAATCTGGGTTCATCCGACACC
AGCTGCCTCCACCATGCCACCGAAGTTCGACCCCAACGAGATCAAGGTCGTATACCTGAGGTGCACCAGAGGTGA
AGTCGGTGCCACTTCTGCCCTGGCCCCCAAGATCGGCCCCCTGGGTCTGTCTCCAAAAAAGGTTGGTGATGACAT
TGCCAAGGCAACGGGTGACTGGAAGGGCCTGAGGATTACAGTGAACTGACCATTGAGAACAGACAGGCCCAGAT
TGAGGTGGTGCCCTTCTGCCTCTGCCCCGATCATCAAAGCCCTCAAGAAACCACCAAGAGACAGAAAGAAACAGAA
AAACATTAAACACAATGGGAATATCACTTTTGATGAGATCGTCAACATTGCTCGACAGATGCGGCACCGATCCTT
AGCCAGAGAACTCTCTGGAACCATTAAAGAGATTCCGGGGACTGCCAGTCTATGGGCTGTAATGTTGATGGCCA
CCACCCTCATGACATCATAGATGACATCAACAGTGGTGCTGTGGAATGCCAGCTAGTTAAGCACAAAGGAAAAT
ATTTCAATAAAGGATCATTGACAACCTGGT

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FIGURE 1937

GTTCCGGCGGGGGCGGCCGAGGGGGAAGAGTGTGTGTCTGCGGGAGAAAGAGGAGAATCACCCAAGCGGCCTCAG
AAGTCCCAGGGAGTGGAGGCCCCCTGCCATGGAGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCCTGC
TCAACGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAAACGGCCGTGGTTATTTTTTACATGGACTTGGAGACA
CAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTGCGCTCCCTCACGTCAAGTACATCTGTTCCCATGAGCCTA
GGATCCCTGTGACCTCAACATGAAGATGGTGTATGCCCTCCTGGTTTGACCTGATGGGGCTGAGTCCAGATGCCC
CAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGA
TCCCTGCCAATCAAATCATCCTGGGAGGCTTTTACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCC
CCCACCCTCTGGCTGGCATCCTGGCTTTGAGCTGTGGCCGCCCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATG
GCAGTGCCAAGGACCTGGCCATCCTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCC
TGATGGCTGAGAAGCTCCGGTCTGTGTGTACACCTGCCAGGGTCCAGTTCCAGACATACCTGGGTGTATGCACA
GCTCCTGTCTCAGGAGATGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCCTCCTGTCTAACTAGTCGCTG
GCCCCAGTGCACTACCCAGCTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTGA
GCCCCGTGTCCCCACCCTTCCTGACCTGTCTTTTCCACAGGCCCTTAGGGGCAGGTGGCAAGGCCTGGCTGGGC
CTTCCTTCCTGGCCTCAGCCACCTGGCTCTGTCTGCAGTAGGGGCAGGCTGCTTTCTTATCCCATTTCCCTGGAG
GCGGGCCCCCTGGCAGCAGTATTGGAGGGGTACAGGCAGCTGGAGAAAGAGGCCAGCCACTGACCCACTCAC
TCAGGACCTCACTCACTAGCCCCACTTTGGGCCCCCTCTGTAACTTAGGGTTTGGCCATGGGGCCCTCCCAG
GCCCCGTGCCCCAAGTATTCTGCCCAGATAATCTGTGTCTCCTGCCTCCACTCAGCTGCTTCTCAGTCATGAAC
GTGGCCATGGCCCCGGGGGTCCCTTGCTGCTGTGGGCTCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGG
AGCCTTTTGAGGGGGGCCTTCCTCAGCTGTTTCCCCACACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCCTCC
TTCCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGGTTTCCAGTCTCCCCCAGCTGTCTACCCCCACTTGT
CCCCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTGTGTCTTGTCTTCTGTCTCCATGTGGTTTTTGGGTGTT
TTTCTTCTGTGTCTCCTGGATTCTGATAAAATTAAAGAAATTGCTTCCTC

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FIGURE 1938

GTGTGTCTGCGGGAGAAAGAGGAGAATCACCCAAGCGGCCTCAGAAGTCCCAGGGAGTGGAGGCCCTGCCATGG
AGCCGTGTGGTGTATGTGTGGTAACACCATGTCTGTGCCCCTGCTCAACGATGCTGCCACCGTGTCTGGAGCTGA
GCGGGAAACGGCCGTGGTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCAC
CATTGCGCTCCCTCACGTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGT
GATGCCCTCCTGTCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAG
GCTTTTACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCCCCACCCTCTGGCTGGCATCCTGGCTT
TGAGCTGCTGGCCGCCTCTGCACCGGGCCTTCCCCAGGCAGCTAATGGCAGTGCCAAGGACCTGGCCATCCTCC
AGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCCTGATGGCTGAGAAGCTCCGGTCTGTTG
TCACACCTGCCAGGGTCCAGTTCCAGACATACCTGGGTGTCATGCACAGCTCCTGTCCTCAGGAGATGGCAGCTG
TGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCAGTACCCCAGCTCATGG
GGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCTGTCCCCACCCTTCCTGACCTG
TCCTTTTCCACAGGCCTCTAGGGGCAGGTG

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FIGURE 1939

GAAAGAGGAGAATCACCCAAGCGGCCTCAGAAGTCCCAGGGAGTGGAGGCCCTGCCATGGAGCCGTGTGGTGTA
TGTGTGGTAACACCATGTCTGTGCCCCTGCTCAACGATGCTGCCACCGTGTCTGGAGCTGAGCGGGAAACGGCCG
TGGTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTTCGGCTCCCTC
ACGTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCTCAACATGAAGATGGTGATGCCCTCCTGGT
TTGACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGG
CCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAGGCTTTTCACAGGGCCGGG
CCCTGTCCCTCTACATGGCCCTCACCTGCCCCACCCCTCTGGCTGGCATCCTGGCTTTGAGCTGCTGGCCGCCTC
TGCACCGGGCCTTCCCCAGGGTCCAGTTCCAGACATACCTGGGTGTCATGCACAGCTCCTGTCTCAGGAGATG
GCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCAGTACCCAG
CTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGICTGAGCTGGTCGAGCCCCTGTCCCCACCCCTTCC
TGACCTGTCTTTTCCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGCCTTCCTTCCTGGCCTCAGCC
ACCTGGCTCTGTCTGCAGTAGGGGCAGGCTG

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FIGURE 1940

GTTATTTTTTTTACATGGACTTGGAGACACAGGGCACAGCTGGGCTGACGCCCTCTCCACCATTCCGGCTCCCTCAC
GTCAAGTACATCTGTTCCCATGAGCCTAGGATCCCTGTGACCCCTCAACATGAAGATGGTGATGCCCTCCTGGTTT
GACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCATCAAGAAGGCAGCAGAGAACATCAAGGCC
TTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCATCCTGGGAGGCTTTTCACAGGGCCGGGCC
CTGTCCCTCTACATGGCCCTCACCTGCCCCAGCTGTCTCACCCCCACTTTGTCCCCACTCTAGAGCAGGGAGGC
AGTGGGGGAGGAGTTGTCTTGTCTTCTGTCTCCATGTGGTTTTTTGGGTGTTTTTCTTCTTGTGTCTCGGATT
TGATAAAATTAAAGAAATTGCTTCCTC

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FIGURE 1941

ACATGAAGATGGTGATGCCCTCCTGGTTTTGACCTGATGGGGCTGAGTCCAGATGCCCCAGAGGACGAGGCTGGCA
TCAAGAAGGCAGCAGAGAACATCAAGGCCTTGATTGAGCATGAAATGAAGAACGGGATCCCTGCCAATCAAATCA
TCCTGGGAGGCTTTTACAGGGCCGGGCCCTGTCCCTCTACATGGCCCTCACCTGCCCCACCCCTCTGGCTGGCA
TCCTGGCTTTGAGCTGCTGGCCGCTCTGCACCGGGCCTTCCCCCAGGCAGCTAATGGCAGTGCCAAGGACCTGG
CCATCCTCCAGTGCCATGGGGAGCTGGACCCCATGGTGCCCGTACGGTTTGGGGCCCTGATGGCTGAGAAGCTCC
GGTCTGTTGTACACCTGCCAGGGTCCAGTTCCAGACATACCTGGGTGTCATGCACAGCTCCTGTCTCAGGAGA
TGGCAGCTGTGAAGGAATTTCTTGAGAAGCTGCTGCCTCCTGTCTAACTAGTCGCTGGCCCCAGTGCAGTACCCC
AGCTCATGGGGGACTCAGCAAGTAAGCATGGCACCATCTTGGGTCTGAGCTGGTCGAGCCCCGTGCCCCACCCCTT
CCTGACCTGTCTTTTTCCACAGGCCTCTAGGGGCAGGTGGCAAGGCCTGGCTGGGCCTTCCTTCTGGCCTCAG
CCACCTGCCCTCCACTCAGCTGCTTCTCAGTCATGAACGTGGCCATGGCCCCGGGGTCCCCTTGCTGCTGTGGGC
TCCCTGTCCCTGGGCAGGAGTGCTGGTGAGGAGGTGGAGCCTTTTGAGGGGGGCCTTCCCTCAGCTGTTTCCCCA
CACTGGGGGGCTGGGCCCTGCCTCCCCGTTACCCCTCCTTCCCTGCAGGCCTGGAGCCTGTAGGGCTGGACTGAGG
TTCAGGTCTCCCCCAGCTGTCTACCCCCACTTTGTCCCCACTCTAGAGCAGGGAGGCAGTGGGGGAGGAGTTG
TGTCTTGTCTTCGTCTCCATGTGGTTTTTGGGTGTTTTTCTTCTTGTGTCCTGGATTCTGATAAAATTAAAGAA
ATTGCTTCCTC

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FIGURE 1942

CGGCACGAGGCGGTGGGAGTGGGAAGGAAGGCGGAGGGAACCATGCGAGGTTCTGAGAATTGCGGCGAGGGTCGC
CTCGAGAGACGGTTTTCTGAGCAGGAATTCTGAAATCCCCACCACTTCCTCCCTCCGGGGGATTTGATCCCCCTATG

GCCACCGCTAACAGCATCATCGTGCTGGATGATGATGACGAAGATGAAGCAGCTGCTCAGCCAGGGCCCTCCCAC
CCACTCCCCAATGCGGCCTCACCTGGGGCAGAAGCCCCCTAGCTCCTCTGAGCCTCATGGGGCCAGAGGAAGCAGT
AGTTCGGGCGGCAAGAAATGCTACAAGCTGGAGAATGAGAAGCTGTTTGAAGAGTTTCCTTGAACTTTGTAAAGATG
CAGACAGCAGACCACCCTGAGGTGGTCCCATTCCTCTATAACCGGCAGCAACGTGCCCACTCTCTGTTTTTGGCC
TCGGCGGAGTTCTGCAACATCCTCTCTAGGGTCCTGTCTCGGGCCCGGAGCCGGCCAGCCAAGCTCTATGTCTAC
ATCAATGAGCTCTGCACTGTTCTCAAGGCCCCACTCAGCCAAAAAGAAGCTGAACTTGGCCCCCTGCCGCCACCACC
TCCAATGAGCCCTCTGGGAATAACCTCCCACACACCTCTCCTTGGACCCCAAAATGCTGAAAACACTGCCTCT
CAGTCTCCAAGACCCGTGGTTCCCGGCGGCAGATCCAGCGTTTGAGCAGCTGCTGGCGCTCTATGTGGCAGAG
ATCCGGCGGCTGCAGGAAAAGGAGTTGGATCTCTCAGAATTGGATGACCCAGACTCCGCATACCTGCAGGAGGCA
CGGTTGAAGCGTAAGCTGATCCGCCTCTTTGGGCGACTATGTGAGCTGAAAGACTGCTCTTCACTGACCGGCCGT
GTCATAGAGCAGCGCATCCCCTACCGTGGCACCCGCTACCCAGAGGTTAACAGGCGCATTGAGCGGCTCATCAAC
AAGCCAGGGCCTGATACCTTCCCTGACTATGGGGATGTGCTTCGGGCTGTAGAGAAGGCAGCTGCCCGACACAGC
CTTGGCCTCCCCCGACAGCAGCTCCAGCTCATGGCTCAGGATGCCTTCCGAGATGTGGGCATCAGGTTACAGGAG
CGACGTCACCTCGATCTCATCTACAACCTTTGGCTGCCACCTCACAGATGACTATAGGCCAGGCGTTGACCCTGCA
CTATCAGATCCTGTGTTGGCCCGCGCCTTCGGGAAAAACCGAGTTTGCCCATGAGTCGGCTGGATGAGGTCATC
TCCAATACGCAATGTTGCAAGACAAAAGTGAGGAGGGCGAGAGAAAAAGAGAAGAGCTCGGCTCCAAGGCACC
TCTTCCCACTCTGCAGACACCCCCGAAGCCTCCTTGGAATTCTGGTGAGGGCCCTAGTGGAATGGCATCCCAGGGG
TGCCCTTCTGCCTCCAGAGCTGAGACAGATGACGAAGACGATGAGGAGAGTGATGAGGAAGAGGAGGAGGAGGAG
GAAGAAGAAGAGGAGGAGGAGGCCACAGATTCTGAAGAGGAGGAGGATCTGGAACAGATGCAGGAGGGTCAGGAGGAT
GATGAAGAGGAGGACGAAGAGGAAGAAGCAGCAGCAGGTAAAGATGGAGACAAGAGCCCCATGTCCTCACTACAG
ATCTCCAATGAAAAGAACCTGGAACCTGGCAAACAGATCAGCAGATCTTCAGGGGAGCAGCAAAACAAAGGACGC
ATAGTGTCACCATCGTTACTGTGAGAAGAACCCCTGGCCCCCTCCAGCATAGATGCTGAAAGCAATGGAGAACAG
CCTGAGGAGCTGACCCTGGAGGAAGAAAGCCCTGTGTCTCAGCTCTTTGAGCTAGAGATTGAAGCTTTGCCCTTG
GATACCCCTTCTCTGTGGAGACGGACATTTCTCTTCCAGGAAGCAATCAGAGGAGCCCTTACCCTGTCTTA
GAGAATGGAGCAGGCATGGTCTCTTCTACTTCTTCAATGGAGGCGTCTCTCCTCACAACTGGGGAGATTCTGGT
CCCCCTGCAAAAAATCTCGGAAGGAGAAGAAGCAACAGGATCAGGGCCATTAGGAAACAGCTATGTGGAAAGG
CAAAGGTGAGTGCATGAGAAGAATGGGAAAAAGATATGTACCCTGCCAGCCACCTTCCCCCTTGGCTTCCTTG
GCCCCAGTTGCTGATTCTCCACGAGGGTGGACTCTCCAGCCATGGCCTGGTGACCAGCTCCCTCTGCATCCCT
TCTCCAGCCCGGCTGTCCCAAACCCCCATTACAGCCTCCTCGGCCTGGTACTTGCAAGACAAGTGTGGCCACA
CAATGCGATCCAGAAGAGATCATCGTGCTCTCAGACTCTGATTAACTGCCTCCCTTCTCCCTGCCTCCAGAATG
TTCTGGGATAACATTTGGAGGAAGGTGGGAAGCAGATGACTGAGGAAGGGATGGACTAAGCTAATCCCCCTTTTGG
TGGTGTTCCTT

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FIGURE 1943

MATANSIIVLDDDDDEDEAAAQPGPSHPLPNAASPGAEAPSSSEPHGARGSSSSSGKKCYKLENEKLFEEFLELCK
MQTADHPEVVPFLYNRQQRAHSLFLASAEFCNILSRVLSRARSRAKLYVYINELCTVLKAHSAKKKLNLA PAAT
TSNEPSGNNPPTHLSLDPTNAENTASQSPTRGSRRIQRLEQLLALYVAEIRRLQEKELDLSELDDPD SAYLQE
ARLKRKLIRLFGRLCELKDCSSLTGRVIEQRIPIYRGTRYPEVNRRIERLINKPGPDTFFPDYGDVLR AVEKAAARH
SLGLPRQQLQLMAQDAFRDVGIRLQERRHLDLIYNFGCHLTDDYRPGVDPALSDPVLARRLRNRS LAMSRLDEV
ISKYAMLQDKSEEGERRKRRARLQGTSSHSADTPEASLDSEGPGSGMASQGCP SASRAETDDEDEESDEEEEEE
EEEEEEATDSEEEEDLEQM QEGQEDDEEEDEEEAAAGKDGDKSPMSSLQISNEKNLEPGKQISRSSGEQQNKG
RIVSPSLLSEEPLAPSSIDAESNGEQPEELTLEESPVSQLFELEIEALPLDTPSSVETDISSSRKQSEEPFTTV
LENGAGMVSSTSFNGGVSPHNWGD SGPPCKKS RKEKKQTGSGPLGNSYVERQRSVHEKNGKKICTLPSPPSPLAS
LAPVADSSSTRVDSPSHGLVTSSLCIPSPARLSQTPHSQPPRPGTCKTSVATQCDPEEIIIVLSDSD

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FIGURE 1944

GGCACGAGGGCTGAGAAGAGTTTTGCACGTGGATCGCCGTTTCGGGTGGGCGAGATGGAGACAGCCCCAAGCCGG
GCAAGGATGTCCCGCCCAAGAAAGACAACTTCAGACCAAGAGAAAGAAACCGCGGCGATACTGGGAGGAAGAGA
CCGTTCCGACCACAGCCGGAGCCTCTCCAGGGCTCTCTCGTAACAAGAAGAATCGGGAGCTCCGTCTCAGAGAC
CAAAAAATGCTTACATCTTAAAGAAGTCTCGGATCTCTAAGAAGCCTCAGGTCCCGAAGAAACCCGAGAATGGA
AGAACC CGAGTCCCAGCGCGCTTGTCCGGGGCCCAAGATCCATTCCCAGGCCCGCCCCCGTCCCTGTGGAAG
TGGTCCAGAAGTCTGTGCGATTGACAAATCCCGAAAGCTACCACATTCTAAAGCCAAAACCTCGAAGCCGACTTG
AGGTGGCTGAAGCTGAGGAAGAGGAAACAAGTATCAAAGCTGCTCGTTCTGAGCTGCTGCTTGTGTAAGAACCTG
GGTTTCTGGAAGGGGAGGATGGGAAGACACAGCAAAGATATGCCAGGCTGACATTGTGGAGGCTGTGGACATTG
CAAGTGCAGCCAAGCACTTTGACTTGAATCTGCGGAGTTTGGACCCTACAGACTAACTACTCTCGAACTGGAA
GACACCTGGCTTTTGGAGGGCGCCGAGGTCTGTGGCTGCCCTTGATTGGGTAACAAAGAAGCTTATGTGCGAGA
TCAACGTCTGAGGCGGTGCGGGACATCCGGTTTCTCCATTCTGAGGCACTGCTTGCTGTTGCTCAGAACCGCT
GGCTCCACATCTATGACAATCAGGGCATTGAGCTCCACTGTATCCGCCGCTGTGACCGAGTAACACGGCTTGAGT
TCCTGCCCTTCCACTTCTCTGCTACAGCTTCAGAAACAGGGTTTCTAACCTACCTGGATGTGTGCTAGTGGGA
AGATTGTGGCAGCTCTGAATGCTCGAGCTGGGCGGCTCGATGTTATGAGTCAGAACCTTACAATGCCGTCTATCC
ATCTCGGACACAGCAATGGTACTGTGTCTTTATGGAGTCCAGCTATGAAGGAGCCACTGGCAAAGATTCTCTGTC
ATCGTGGTGGGTCCGGGCTGTGGCAGTAGATTCTACAGGCACGTACATGGCCACCTCTGGCCTAGACCACCAGC
TGAAGATCTTTGACTTGCGAGGGACGTACCAGCCTCTGAGCACTCGGACCCTGCCCATGGAGCAGGGCACCTGG
CCTTCTCCAGAGGGGACTGCTGGTGGCGGGAATGGGTGACGTTGTCAACATCTGGGCAGGGCAGGGCAAGGCCA
GCCCACCTTCCCTTGAACAGCCCTACCTCACCCACCGGCTCTCAGGCCCTGTGCATGGCCTTCAGTTCTGCCCT
TTGAAGATGTGCTGGGGGTGGGGCACACTGGGGGCATCACCAGCATGCTGGTCCCTGGGGCCGGTGAGCCCAACT
TCGATGGCCTGGAGAGTAATCCATACAGAAGCCGGAAGCAGCGCCAGGAGTGGGAGGTGAAGGCCCTGCTAGAGA
AGGTACCTGCAGAGCTTATTTGTCTGGACCCACGAGCCCTGGCCGAGGTGGATGTCATCTCCCTGGAGCAGGGAA
AGAAGGAGCAGATAGAGAGGCTGGGCTATGACCCGAGGCTAAGGCTCCCTTCCAGCCAAAGCCAAAGCAGAAGG
GCCGCAGCTCCACGGCAAGCCTGGTGAAGAGGAAGAGGAAGGTCTGATGAGGAACACAGGGACAAGGTCCGGC
AGAGCCTTCAGCAGCAGCATCATAAGGAGGCGAAGGCCAAGCCACGGGGGCCCGCCATCTGCCCTGGACAGAT
TTGTGCGCTGAGCCAGACTCCAGGGTTGCCTGGGAACAGTCTCTCCCAAGATCACCTGTAGGGAATGAGTGTT
CCCTGGAAACAAGGAGGTGGGGCAGTGTGGCCCTTCCCAACTGGGGGTGGACAGCTGTCTCCTGGGGTGGGT
GGTATTAAAGAGGAAAGCGATTTTTTGGAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1945

METAPKPGKDVPPKKDKLQTKRKKPRRYWEEETVPTTAGASEGPPRNKKNRELRPQRPKNAYILKKSRIKKPQV
PKKPREWKNPESQRGLSGAQDPFPGPAPVEVEVVQKFCRIDKSRKLPKSKAKTRSRLEVAEAEETSIKAARSE
LLLAEEPGFLEGEDGEDTAKICQADIVEAVDIAAASHFDLNLQFGPYRLNYSRTGRHLAFGGRRGHVAALDWV
TKKLMCEINVMEAVRDIRFLHSEALLAVAQNRWLHIYDNQGIELHCIRRCDRVTRLEFLPFHFLATASETGFLT
YLDVSVGKIVAALNARAGRLDVMSQNPYNVHLGHSTVSLWSPAMKEPLAKILCHRGGVRAVAVDSTGTMYA
TSGLDHQLKIFDLRGTYQPLSTRTLPHGAGHLAFSQRGLLVAGMGDVVNIWAGQGKASPPSLEQPYLTHRLSGPV
HGLQFCPFEDVLGVGHTGGITSMLVPGAGEPNFDGLESNPYRSRKQRQEWKALLEKVPALICLDPRALAEVD
VISLEQKKEQIERLGYDPQAKAPFQPKPKQKGRSSTASLVKRRKVMDEEHRDKVRQSLQQQHHKEAKAPTGA
RPSALDRFVR

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FIGURE 1946

CTCTCTTCCACAGGAGGCCTACACGCCGCCGCTTGTGCTGCAGCCATGTCTCTAGTGATCCCTGAAAAGTTCCAG
CATATTTTGGGAGTACTCAACACCAACATCGATGGGCGGCGGAAAATAGCCTTTGCCATCACTGCCATTAAGGGT
GTGGGCCGAAGATATGCTCATGTGGTGTGAGGAAAGCAGACATTGACCTCACCAAGAGGGCGGGAGAACTCACT
GAGGATGAGGTGGAACGTGTGATCACCATTATGCAGAATCCACGCCAGTACAAGATCCCAGACTGGTTCCTGAAC
AGACAGAAGGATGTAAAGGATGGAAAATACAGCCAGGTCTAGCCAATGGTCTGGACAACAAGCTCCGTGAAGAC
CTGGAGCGACTGAAGAAGATTCGGGCCCATAGAGGGCTGCGTCACTTCTGGGGCCTTCGTGTCCGAGGCCAGCAC
ACCAAGACCACTGGCCGCCGTGGCCGCACCGTGGGTGTGTCCAAGAAGAAATTAAGTCTGTAGGCCTTGTCTGTTA
ATAAATAGTTTATATACAAAAAA

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FIGURE 1947

MSLVIPEKFQHILRVLNTNIDGRRKIAFAITAIKGVGRRYAHVVLRKADIDLTKRAGELTEDEVERVITIMQNPR
QYKIPDWFLNRQKDVKDGKYSQVLANGLDNKLREDLERLKKIRAHRGRLRHFWGLRVRGQHTKTTGRRGRTVGVSK
KK

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FIGURE 1948

GGAGAGGATCCCGGAGCCGGTGAGAATTCTCTGTTTTTCTCTACCATCCTTTCCAGGCCTTTTCCTCACCTAAT
GAGTCGTAGAGACGAGGGCCAGAGAGTCTGTAAAGTGGCTGGTGAAAGATTAGTGTCCAGGGCCCTACATCCG
GGAGGTGGTTTCGGGATAAAGAGAACTAGTCTTGGGAACAATGTAGGTGGGAACCTTAAGGGAATGGGAGAGCGGCC
CATAGAGGTGGACGGAGGGCGCGATTGGAGTAAAGCGGACCCTGTGTAGGTATAGAGTTGAGTCAAGTGGAGTCA
CTGCCTCTGTCCCTCTGGTCAGCGTGATGGCCAGAGGCCTGGGGGCCCCCCTGGGTGGCCGTGGGACTGCTGA
CCTGGGCGACCTTGGGGCTTCTGGTGGCTGGACTCGGGGGTCATGACGACCTGCACGACGATCTGCAAGAGGACT
TCCATGGCCACAGCCACAGGCACTCACATGAAGATTTCCACCATGGCCACAGCCATGCCCATGGCCATGGCCACA
CTCACGAGAGCATCTGGCATGGACATACCCACGATCACGACCATGGACATTACATGAGGATTTACACCATGGCC
ATAGCCATGGCTACTCCCATGAGAGCCTCTACCACAGAGGACATGGACATGACCATGAGCATAGCCATGGAGGCT
ATGGGGAGTCTGGGGCTCCAGGCATCAAGCAGGACCTGGATGCTGTCACTCTCTGGGCTTATGCACTGGGGGCCA
CAGTGCTGATCTCAGCAGCTCCATTTTTTGTCTCTTCTTTATCCCCGTGGAGTCGAACCTCTCCCCGGCATCGCT
CTCTACTTCAGATCTTGCTCAGTTTTGCTTCCGGTGGGCTCCTGGGAGATGCTTTCCTGCACCTCATTCTCATG
CTCTTGAACCTCATTCTCACCACTCTGGAGCAACCCGGACATGGACACTCCCACAGTGGCCAGGGCCCCATTCT
TGCTGTGGGACTGTGGGTTCTCAGTGAATTGTTGCCTTTCTGTCTGTGGAGAAATTTGTGAGACATGTGAAAG
GAGGACATGGTTCAGTTCATGGACATGGACACGCTCACAGTCATACAGTGAAGTCATGGACATGGAAGACAAG
AGCGTTCTACCAAGGAGAAGCAGAGCTCAGAGGAAGAAGAAAAGGAAACAAGAGGGGTTTCAAGAGGGCAGGAG
GGAGCACAGTACCCAAAGATGGGCCAGTGAGACCTCAGAAGCTGAAGAAGAAAAAGAGGCTTAGACCTGCGTG
TGTCGGGGTACCTGAATCTGGCTGCTGACTTGGCACACAACCTTCACTGATGGTCTGGCCATTGGGGCTTCCTTTC
GAGGGGGCCGGGGACTAGGGATCCTGACCACAATGACTGTCTGCTACATGAAGTGGCCACGAGGTCGGAGACT
TTGCCATCTTGGTCCAGTCTGGCTGCAGCAAAAAGCAGGCGATGCGTCTGCAACTACTGACAGCAGTAGGGGCAC
TGGCAGGCACAGCCTGTGCCCCTTCTCACTGAAGGAGGAGCAGTGGGCAGTGAAATTGCAGGTGGTGCAGGTCCTG
GCTGGGTCCTGCCATTTACTGCAGGTGGCTTTATCTACGTAGCAACAGTGTCTGTGTGCCCCAGCTGCTGAGGG
AGGCATCACCATTTGCAATCACTTCTGGAGGTGCTGGGGCTGCTGGGGGGAGTTATCATGATGGTGTGATTGCCC
ACCTTGAGTGAGGGGTGGATAAACTACCCCTGCCCCAAACCTCTACCCCTAACTCCAGGTACAGGGGTGCGTAGAG
GTTGGGGGCCCTGGCCAGGGACATCTGCCAAAGGAAGGAAGTGTAGCCTGGGAGAATGGTTACTTTGGCATTAGG
GCCTTCAAGGGCTGGCAGTCTTACAGAGGCTGGAGCGGTGAGAATGAGAGGCCAGAGGGACCATAGTGTGGGCA
CTGTCTGACCATGTTGCATTTGGAAGGCTAAATGGGGCCATGAAGAAGGCTGGAAGGGACAGGGGGTGATGGCAG
CCTACCTGGTGTCCCCTACCCACCTGTTCTCGGAGAACCAAGTTGCTACACAGGAAGTTCTCCAAGGTCCAGTT
TCCTTTCTCCACAGTTGGTGGAGGCTTCAGGGAAGACCAGAGTCCCTGGACAGAGAGGGTAACAGGAGGAGTCG
GGGATAAACATCAAACATCAATCGTGTCTGATTGTTGGGAGTGATTGGGGGGATGGGGTGGGAGAGGGTTAGTT
GGTATTCTCATGGCCTGATTTTTTTTGTTCCTATTCCTTTTATATCACTGTGTTTGAATCGAGGGGGAGGGGTG
TAACCGGAAATAAAGACCTCCGATCTTCCGCCCC

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FIGURE 1949

GCTCACAGTCATCAATTATAGACCCCAACAATCGGCCCTGAAGACAGAATGTTCCATATCAGAGCTGTGATCTT
GAGAGCCCTCTCCTTGGCTTTCCCTGCTGAGTCTCCGAGGAGCTGGGGCCATCAAGGCGGACCATGTGTCAACTTA
TGCCGCGTTTGTACAGACGCATAGACCAACAGGGGAGTTTATGTTTGAATTTGATGAAGATGAGATGTTCTATGT
GGATCTGGACAAGAAGGAGACCGTCTGGCATCTGGAGGAGTTTGGCCAAGCCTTTTCCTTTGAGGCTCAGGGCGG
GCTGGCTAACATTGCTATATTGAACAACAACCTTGAATACCTTGATCCAGCGTTCCAACCACACTCAGGCCACCAA
CGATCCCCCTGAGGTGACCGTGTTCCTCAAGGAGCCTGTGGAGCTGGGGCCAGCCCAACACCCTCATCTGCCACAT
TGACAAGTTCTTCCCACCACTGCTCAACGTCACGTGGCTGTGCAACGGGGAGCTGGTCACTGAGGGTGTGCTGA
GAGCCTCTTCTGCCCAGAACAGATTACAGCTTCCACAAGTTCCATTACCTGACCTTTGTGCCCTCAGCAGAGGA
CTTCTATGACTGCAGGGTGGAGCACTGGGGCTTGGACCAGCCGCTCCTCAAGCACTGGGAGGCCCAAGAGCCAAT
CCAGATGCCTGAGACAACGGAGACTGTGCTCTGTGCCCTGGGCCTGGTGCTGGGCCTAGTCGGCATCATCGTGGG
CACCGTCTCATCATAAAGTCTCTGCGTTCTGGCCATGACCCCCGGGCCAGGGGACCCGTGTGAAATACTGTAAA
GGTGACAAAATATCTGAACAGAAGAGGACTTAGGAGAGATCTGAACTCCAGCTGCCCTACAACTCCATCTCAGC
TTTTCTTCTCACTTCATGTGAAAATACTCCAGTGGCTGACTGAATTGCTGACCCCTCAAGCTCTGTCCTTATCC
ATTACCTCAAAGCAGTCATTCCCTTAGTAAAGTTTCCAACAAATAGAAATTAATGACACTTTGGTAGCACTAATAT
GGAGATTATCCTTTTCATTGAGCCTTTTATCCTCTGTTCTCCTTTGAAGAACCCTCACTGTACCTTCCCGAGAA
TACCCTAAGACCAATAAATACTTCAGTATTTT

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FIGURE 1950

MRPEDRMFHIRAVILRALSLAFLLSLRGAGAIKADHVSTYAAFVQTHRPTGEFMFEFDEDEMFYVDLDKKETVWH
LEEFQAFSFEAQGGLANIAILNNNLNTLIQRSNHTQATNDPPEVTVPKEPVELGQPNTLICHIDKFFPPVLNV
TWLCNGELVTEGVAESLFLPRTDYSFHKFHYLTFVPSAEDFYDCRVEHWGLDQPLLKHWEAQEPIQMPETTETVL
CALGLVLGLVGIIIVGTVLIIKSLRSGHDPRAQGT

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FIGURE 1951A

GGACTGCGGGATAGGAAGCTGGGGATATGGACAAGCAGCAGCGTTATAGCGCTCTGGGTTTCGGGACATAGGCCT
GGGCCATGCGGGCCCCCTTGGCCCCCTTGGCGCGACCCCCAGGAACGTTTCGGAAAGCTGGTCCTCGTGGCTGGGGGA
AAGGCGGGGGTGGGGGGGAAGCGGGCAGTGACCCCGGTTCAGCCAATCTGGGTGCTGCTGACGTACGCGCGCGG
CCCCGATGCTCTCCCCACCCCCCAGCCCGTTTCGGGAAGGGAGGGGGCTGGGGGCTACGCCCCATCCCCAGCAG
GCTTCGTTTTCTGGGGGGGGGTTGACACCCCGGATTACATACCCCGTACCAAGCCGAGGGCAACTTTGGAGGCCC
CCTGGAAGGCTTTAGGATCCAGATTCTTCGCTGCTGCTGCCTTACCGCCGAGAACCACCCGCCAGGCGTCTT
GCGGCCACACCCCTGCGGGGTTCAAGCAGGCTACGCCCACGCGACCCCTCCCGTTTCCCTGCTTTGGCCAATGGA
GGAGCTACGAATGGCAGCAGCTGCTCGAGCTTGGCAGTCTCCAGTTGGGCTGTGCATGGAAGCTTGGGAAGACTT
TGTTGGAAGGGGAGGCGGGGAGAGAGTCTGGAGGCTCTGGGGCGATGGCTTCCGCACCTCTTCCAACCACCTC
TTTCCCTGGAGTCGGCGGACCACAGCTCAGCCAATTGGCTTGGAGATGTGGCGGGTTGCCACTTCCCTGTGGGTC
TCTGCGGCACCTCTTCTGCTTGGTGACTGACACCTTGGAAATGAAGTTTATGACGTCATCGTTGCGGCTGGCCAAT
AGAAAAAGCTCCCGCGGAGAGGTGTTCTTCCCTTCGACTCAGCTTCTTACCCGCGTGAGCGAGCGCGCGCGC
GCGGAGGGGGTGGGGAAAATCTCAAGCAGGGTGGCGCGCATGAGCGGCGAAGCTCCTCCTCCCCGCTATATATA
AAGGGCTGGCGCGGGGCTCGGCGGCGCCATTTCTGCTGGAGTGGAGCAGCCTCTAGAACGAGCTGGAGGATTCT
GCCTACCGATACAGAGCCTTCGAGTCGTCGCGGGGCGCCATTACAATCCACCTCCATCCGCTTGGAAATGGCCTT
CGTCCCGGCTATGACTGGTCCAGCGGGCAGTACAGACCCCTAGAAAGCCCTGGAGCTCCCTTTTTCGGGCC
CCGCCAATCCTCGGAGTCTGTCCACCCCTCTACTCCGCCCTCAAGAGGATTCAAAGATGGAGGCGGCGGCTC
CCTAAACCACTTTTCTGTTTCATCCGCTCCATCCGAGATCGAAACGGGACCTCGTCCGCCCCGTAGGGGCCCCGA
CAAGAAGAGGGAATCCCTGCAGACCAACAGCGGGCTATATTGACGACGGTGTCTGAGATCGGGGACCGTCTTTTG
AAGAGTCAGTCCCTCCTTAGTTGCCCCCTCAGCTGAGGCCGCCGCTTTCTTGTGTCCGCGCTGTGCAGAG
CGCGCCAAGCTGCCCGGAGCTCTCCGAGAGGCCCCAAAGAGACTGCTTTCGTGCCGGCCAGGAGGGGGTTTGT
GCCTGGAGGCCCCAAGAGGAACGGCCTCCCCCAACTTAGCGGGTTATGCTGGACCGGGCGGTGAGGGGAACCGAG
GCCACCCGGAATTTCCGCGGCTGAGGGCAGCGCCGTTCTTGGGTCAAGATGCTGCAAAACGTGACTCCCCAC
AATAAGCTCCCTGGGGAAGGGAATGCAGGGTTGCTGGGGCTGGGCCCAGAAGCAGCAGCACCAGGGAAGGATT
CGAAAACCTCTCTCTTGTATGAGGGCTTTGAGAGCCCCACAATGGCTTCGGTGCCTGCTTTGCAACTTACCCCT
GCCAACCACACCCCCGGAGGTGTCCAATCCCAAAAAGCCAGGACGAGTTACCAACCAGCTGCAATACCTACAC
AAGGTAGTGATGAAGGCTCTGTGGAACATCAGTTTCGATGGCCATTCCGGCAGCCTGTGGATGCTGTCAAACGT
GGTCTACCGGATTATCACAAAATTATAAACAGCCTATGGACATGGGTACTATTAAGAGGAGACTTGA AAAACAAT
TATTATTGGGCTGCTTCAGAGTGTATGCAAGATTTAATACCATGTTTACCAACTGTTACATTTACAACAAGCCC
ACTGATGATATTGTCCTAATGGCACAACGCTGGAAGATATTCTACAGAAGGTGCATCAATGCCACAAGAA
GAACAAGAGCTGGTAGTGACCATCCCTAAGAACAGCCACAAGAAGGGGGCCAGTTGGCAGCGCTCCAGGGCAGT
GTTACCACTGCCCATCAGGTGCCTGCCGCTCTTCTGTGTACACACAGCCCTGTATACTCCTCCACCTGAGATA
CCTACCACTGTCTTCAACATTCCCCACCCATCAGTCATTTCTCTCCACTTCTCAAGTCTTGCACCTGCTGGA
CCCCGCTCCTTGCTGTTACTGCAGCTCCTCCAGCCCAGCCCTTGCCAAGAAAAAGGCGTAAAGCGGAAAGCA
GATACTACCACCCCTACACCTACAGCCATCTGGCTCCTGGTTCTCCAGCTAGCCCTCCTGGGAGTCTTGAGCCT
AAGGCAGCAGGCTTCCCCCTATGCGTAGAGAGAGTGGTCGCCCCATCAAGCCCCACGCAAAGACTTGCCCTGAC
TCTCAGCAACAACACCAGAGCTCTAAGAAAGGAAAGCTTTCAGAACAGTTAAACATTGCAATGGCATTTTGAAG
GAGTTACTCTCTAAGAAGCATGCTGCCTATGCTTGGCCTTTCTATAAACAGTGGATGCTTCTGCATTTGGCCTG
CATGACTACCATGACATCATTAAAGCAGCCATGGACCTCAGCACTGTCAAGCGGAAGATGGAGAACCGTGATTAC
CGGGATGCACAGGAGTTTGCTGCTGATGTACGGCTTATGTTCTCCAAGTCTATAAGTACAATCCCCAGATCAC
GATGTTGTGGCAATGGCAGCAAAAGCTACAGGATGTATTTGAGTTCGGTTATGCCAAGATGCCAGATGAACCACTA
GAACCAGGGCCTTTACAGTCTCTACTGCCATGCCCCCTGGCTTGCCAAATCGTCTTCAGAGTCTCCAGTGAG
GAAAGTAGCAGTGAGAGCTCCTCTGAGGAAGAGGAGGAGGAAGATGAGGAGGACGAGGAGGAAGAAGAGAGTGAA
AGCTCAGACTCAGAGGAAGAAAGGGCTCATCGCTTAGCAGAACTACAGGAACAGCTTCGGGCAGTACATGAACAA
CTGGCTGCTCTGTCCCAGGGTCCAATATCCAAGCCCAAGAGGAAAGAGAGAAAAAGAGAAAAAGAGAAACGG
AAGGCAGAGAAGCATCGAGGCCGAGCTGGGGCCGATGAAGATGACAAGGGGCTAGGGCACCCCGCCACCTCAA
CCTAAGAAGTCCAAGAAAGCAAGTGGCAGTGGGGTGGCAGTGTGCTTTAGGCCCTTCGGGCTTTGGACCTTCT
GGAGGAAGTGGCACCAGCTCCCCAAAAGGCCACAAGACAGCCCCACCTGCCCTGCTACAGGTTATGATTCA

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FIGURE 1951B

GAGGAGGAGGAAGAGAGCAGGCCCATGAGTTACGATGAGAAGCGGCAGCTGAGCCTGGACATCAACAAATTACCT
GGGGAGAAGCTGGGCCGAGTTGTGCATATAATCCAAGCCAGGGAGCCCTCTTTACGTGATTCAAACCCAGAAGAG
ATTGAGATTGATTTTGAAACACTCAAGCCATCCACACTTAGAGAGCTTGAGCGCTATGTCCTTTCCCTGCCTACGT
AAGAAACCCCGAAGCCCTACACCATTAGAAGCCTGTGGGAAAGACAAAGGAGGAACTGGCTTTGGAGAAAAAG
CGGGAATTAGAAAAGCGGTTACAAGATGTCAGCGGACAGCTCAATTCTACTAAAAAGCCCCCAAGAAAGCGAAT
GAGAAAACAGAGTCATCCTCTGCACAGCAAGTAGCAGTGTCACGCCTTAGCGCTTCCAGCTCCAGCTCAGATTCC
AGCTCCTCCTCTTCCTCGTCGTCGTCTTCAGACACCAAGTGATTGAGACTCAGGCTAAGGGGTCAGGCCAGATGGG
GCAGGAAGGCTCCGCAGGACCGGACCCCTAGACCACCCCTGCCCCACCTGCCCCCTTCCCCCTTTGCTGTGACACTT
CTTCATCTCACCCCCCTGCCCCCTCTAGGAGAGCTGGCTCTGCAGTGGGGGAGGGATGCAGGGACATTTACT
GAAGGAGGGACATGGACAAAACAACATTGAATTCAGCCCCATTGGGGAGTGATCTCTTGGACACAGAGCCCCC
ATTCAAATGGGGCAGGGCAAGGGTGGGAGTGTCAGGAGCCCTGATCTGGAGTTACCTGAGGCCATAGCTGCCCT
ATTCACTTCTAAGGGCCCTGTTTTGAGATTGTTTGTCTAATTTATTTAAGCTAGGTAAGGCTGGGGGAGGGT
GGGGCCGTGGTCCCTCAGCCTCCATGGGGAGGGAGAAGGGGAGCTCTTTTTTACGTGATTTTTTTTTTC
TACTCTGTTTTCCCTTTTTCCCTCCGCTCCATTGGGGCCCTGGGGGTTTCAGTCATCTCCCATTGTCCTCCCT
GGACTGTCTTTGTTGATTCTAACTTGTAATAAAGAAAATATT

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FIGURE 1952

GGGCAGAAAGGGCÄCGCTCTTGTGGGTGACTACAGGTTAGGAGACCGTTGAACCTGGAGGGGCCCTAGGATGGAC
CCCGTGAAAGATTTCAGAGACTGCGCCCTCTCCCTGGCGCCGCTTCCCCTACACGCGGCGGGTATATTCTGTTG
CAGTTGGCCCAGGACCTGTTTCCAAGACTCTGCCCCCTCGCACTTCCGTCCCTCCTGGTTTTGTAAAGTGATGCT
CATAGGAACCCCCACCCGCGTGACACTACTCCCAGCTCCTGGCTGACTTCTAGTCTTCTGGTTGAAGCTGCGCC
TTTAGATGACACGACCCTACCCACCCCTGTTTCCAGCGGATGCCCGGGCCTGGAGCCCACAGAATTCTTCCAGTC
CCTGGGTGGGGACGGAGAAAGGAACGTTTCAGATTGAGATGGCCCATGGCACCACCACGCTCGCCTTCAAGTTCCA
GCATGGAGTGATTGCAGCAGTGGATTCTCGGGCCTCAGCTGGGTCCACATTAGTGCCTTACGGGTGAACAAGGT
GATTGAGATTAACCCCTTACCTGCTTGGCACCATGTCTGGCTGTGCAGCAGACTGTCAGTACTGGGAGCGCCTGCT
GGCCAAGGAATGCAGGCTGTACTATCTGCGAAATGGAGAACGTATTTTCAGTGTGGCAGCCTCCAAGCTGCTGTC
CAACATGATGTGCCAGTACCGGGCATGGGCCCTCTCTATGGGCAGTATGATCTGTGGCTGGGATAAGAAGGGTCC
TGGACTCTACTACGTGGATGAACATGGGACTCGGCTCTCAGGAAATATGTTCTCCACGGGTAGTGGGAACACTTA
TGCCTACGGTGTTCATGGACAGTGGCTATCGGCCTAÄTCTTAGCCCTGAAGAGGCCTATGACCTTGGCCGCAGGGC
TATTGCTTATGCCACTCACAGAGACAGCTATTCTGGAGGCGTTGTCAATATGTACCACATGAAGGAAGATGGTTG
GGTGAAAGTAGAAAGTACAGATGTCAGTGACCTGCTGCACCAGTACCGGGAAGCCAATCAATAATGGTGGTGGTG
GCAGCTGGGCAGGTCTCCTCTGGGAGGTCTTGGCCGACTCAGGGACCTAAGCCACGTTAAGTCCAAGGAGAAGAA
GAGGCCTAGCCTGAGCCAAAGAGAGAGTACGGGCTCAGCAGCCAGAGGAGGCCGGTGAAGTGCATCTTCTGCGTG
TTCTC

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FIGURE 1953

MLIGTPTPRDTPSSWLTSLLVEAAPLDDTTLPTPVSSGCPGLEPTEFFQSLGGDGERNVQIEMAHGTTTLAFK
FQHGVIAAVDSRASAGSYISALRVNKVIEINPYLLGTMSGCAADCQYWERLLAKECRLYYLRNGERISVSAASKL
LSNMMCQYRGMGLSMGSMICGWDKKGPGLYYVDEHGTSLSGNMFSTGSGNTYAYGVMDSGYRPNLSPEEAYDLGR
RAIAYATHRDSYSGGVNMYHMKEDGWVKVESTDVSDLLHQYREANQ

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FIGURE 1954

ATTCTTGCTCTGTTCTGCCTCACTCCCGAGCTCTACTGACTCCCAACAGAGCGCCCAAGAAGAAAATGGCCATAAG
TGGAGTCCCTGTGCTAGGATTTTTCATCATAGCTGTGCTGATGAGCGCTCAGGAATCATGGGCTATCAAAGAAGA
ACATGTGATCATCCAGGCCGAGTTCTATCTGAATCCTGACCAATCAGGCGAGTTTATGTTTGACTTTGATGGTGA
TGAGATTTTCCATGTGGATATGGCAAAGAAGGAGACGGTCTGGCGGCTTGAAGAATTTGGACGATTTGCCAGCTT
TGAGGCTCAAGGTGCATTGGCCAACATAGCTGTGGACAAAGCCAACCTGGAAATCATGACAAAGCGCTCCAACTA
TACTCCGATCACCAATGTACCTCCAGAGGTAACCTGTGCTCACGAACAGCCCTGTGGAACCTGAGAGAGCCCAACGT
CCTCATCTGTTTCATAGACAAGTTCACCCACCAAGTGGTCAATGTCACGTGGCTTCGAAATGGAAAACCTGTCAC
CACAGGAGTGTGAGAGACAGTCTTCCTGCCCAGGGGAAGACCACCTTTTCCGCAAGTTCCACTATCTCCCTTCCT
GCCCTCAACTGAGGACGTTTACGACTGCAGGGTGGAGCACTGGGGCTTGGATGAGCCTCTTCTCAAGCACTGGGA
GTTTGATGCTCCAAGCCCTCTCCCAGAGACTACAGAGAACGTGGTGTGTGCCCTGGGCCTGACTGTGGGTCTGGT
GGGCATCATTATTGGGACCATCTTCATCATCAAGGGATTGCGCAAAAGCAATGCAGCAGAACGCAGGGGGCCTCT
GTAAGGCACATGGAGGTGATGGTGTTCCTTAGAGAGAAGATCACTGAAGAACTTCTGCTTTAATGGCTTTACAA
AGCTGGCAATATTACAATCCTTGACCTCAGTGAAGCAGTCATCTTCAGCATTTTCCAGCCCTATAGCCACCCCA
AGAGTGGTTATGCCTCCTCGATTGCTCCATACTCTAACATCTAGCTGGCTTCCCTGCTATTGCCTTTTCCTGTA
TCTATTTTCCTCTATTTCCATCATTTTATTATCACCATGCAATGCCTCTGGAATAAAACATACAGGAGTCTGTC
TCTGCTATGGAATGCCCCATGGGGCATCTCTTGTGTACTTATTGTTTAAGGTTTCCTCAAACCTGTGATTTTTCTG
AACACAATAAACTATTTTGAAGATCTTGGGTGGAA

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FIGURE 1955

GCCGTCCTTATCTAAGTCAGAGTCTCCTAAAGAGCCAGAACAACCTGAGGAAGCTCTTCATTGGAGGGTTGAGCTTT
GAAACAACCTGATGAGAGCCTGAGGAGCCATTTTGAGCAGTGAGGGACACTCCCGGACAGTGTGGTCATGAGAGAT
CCAAACCCAAGCGCTCCAGGGGCTTTGGATTTTTCACATATGCCACTGTGGAGGAGGTGGATGCAGCCGTGAATG
CAAGGCCACACAAGGTGGATGGAAGAGCTGTGGAACCAAGAGAGCTGTCTCAAGAGAAGATTCTCAAATACCAG
GTGCCCCTTAACCTGTGAAAAAGATATATGCTGGTGGCATTAAAGAAGACACTGAAGAAATCACCTAAGAAATTA
TTTTGAGTAGTATGGAAAAATTGAAGTGATTGAAAACATGACTGACCGAGGCAGTTGCAAGAAAAGGGGCTTTGC
CTTTGTAACCTTTGATGACCATGACTCCGTGGATAAGACTGTCATTTCAGAAATACCACAGTGTGAATGGCCACAA
CTGTGAAGTTAGGAAAGCCTGTCAAAGCAAGAGATGGCTAGTGTCCATCCAGCCGAAGAGGTCGAAGTGGTTCT
GGAAACTTTGGTGGTGGTCATGGAGGTGGTTTCGGTGGGAATGACAACCTTTGATCATGGAGGAAACTTCAGTGGT
TGTGGTAGCTTTGGTGGCAGCTGTGGTGGTGGTGGATATGGTGGCAGTGAGGATGGCTATAATGGATTGGTAAT
GATGGGAGCAATTTTGGAGGTGGTGGGAAGCTACAATGATTTTGGCAATTACAACAATCAGTCTTCAAATTTTGA
CCCATGAAGGGAGGAAACTTTGGAGGCAGAAGCTGTGGCCTCTATGGTGGTGGAGGCCAATACTTTGCCAAACCA
TGAAACCAAAGTGGCTATTGTGGTTCCAGTAGCAGCAGTAGCTATGGCAGTGGCAGAAGATTTTAATTAGGAAAC
AAAGCTTAGCAGGAGAGGAGAGCCAGAGAAGTGACAGGGAAGCTACAGGTTACAACAGATTTGTGAACTCAGCCA
AGCACAGTGGTGGCAGGGCCTAGCTGGTACAAAGAAGACATGTTTAGACAAATACTCATGTGTATGGGCAAAAA
ACTCGAGGACTGTATTTGTGACTAATTGTATAACAGGTTATTTTAGTTTCTGTTCTGTGGAAAGTGTAAAGCATT
CCAACAAAGGGTTTTAATGTAGATTTTTTTTTGCACCCATGCTGTTTATTGCTAAATGTAATAGTCTGATCGTGA
CACTGAAAAAA

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FIGURE 1956

ATGGACGAACGGCTACTGGGGCCGCCCCCTCCAGGCGGGGGCCGGGGGGGCCTGGGATTGGTGAGTGGGGAGCCT
GGGGGCCCTGGCGAGCCTCCCGGTGGCGGAGACCCCGGTGGGGGTAGCGGGGGGTCCCGGGAGGCCGAGGGAAG
CAAGACATCGGGGACATTCTGCAGCAGATAATGACCATCACCGACCAGAGCCTGGACGAGGCCAGGCCAAGAAA
CACGCCCTAAACTGCCACCGAATGAAGCCTGCTCTCTTTAGCGTCTCTGTGTGAAATCAAGGAGAAAAGTGGCCTC
AGCATTTCGGAGCTCCCAGGAGGAGGAGCGGGTGGACCCACAGCTGATGCGCTTGGACAACATGCTTCTGGCAGAG
GGTGTGGCTGGGCCCCGAGAAAGGGGGCGGCTCAGCAGCAGCAGCTGCAGCCGCTGCAGCCTCTGGTGGTGGTGTG
TCCCTTGACAACCTCATCGAACACTCGGACTATCGCAGCAAACCTTGCCAGATCCGTCACATATACCACTCGGAG
CTGGAGAAGTATGAGCAGGCATGTAATGAGTTACGACCCCATGTCATGAACCTGCTGAGGGAGCAGAGCCGCACC
AGGCCCGTGGCCCCCAAAGAGATGGAACGCATGGTGAGCATCATCCATCGAAAGTTCAGCGCCATCCAGATGCAG
CTGAAGCAGAGCACCTGCGAGGCTGTGATGATCCTGCGCTCCCGTTTCTGGATGCCAGACGAAAGCGCCGTAAC
TTCAGCAAACAGGCCACTGAGGTCTTAAATGAGTATTTCTACTCCACCTGAGTAACCCATATCCTAGTGAGGAG
GCCAAGGAGGAGCTTGCCAAGAAGTGTGGCATCACCGTGTCTCAGGTCTCCAAGTGGTTTGGCAACAAGAGGATT
CGCTATAAGAAAAACATCGGAAAGTTCCAAGAGGAGGCAACATCTATGCTGTCAAGACCGCCGTGTCAGTCACC
CAGGGGGGCCACAGCCGACCCAGCTCCCCGACACCCCTTCTCTGCAGGCTCTGGCGGCTCTTTCAATCTCTCA
GGATCTGGAGACATGTTTCTGGGGATGCCTGGGCTCAACGGAGATTCTTATTCTGCTTCCAGGTGGAATCACTC
CGAAGCTCGATGGGGCCAGGGGGCTATGGGGATAACCTCGGGGGAGGCCAGATGTACAGCCACGGGAAATGAGG
GCAATGGCAGCTGGCAAGAGGCTGTGACCCCTCTTCAGTGACATCCCCAACGGAGGGACCAGGGAGTGTTCAC
TCTGATACCTCCAAGTATCTTGCCCCCTCAGGGTCACAGGGGTGGGGGCTCTCACAAGGCGACTGAAGAGGACG
CAGGCTTCCAGAGGACAAACCCCAATACAGGAGAAGCACAAGACAGAGAAGGGCAATGGGGTCAATCCCTCCCT
AACGAGACTCTCTGTGCTGGGGGTGCTAATTACATGGCAGGAAGAATGGGGCTCTAAGGGAGTGTGGGGTCTG
TCTCTCCCTTTTTTCCATCTTTTTCTCTCTCGCTTTCTTTCTTACACAGAAACATACACATACCGAGAAACCTA
TTTCTCAGACCCCTTTTTCTCTCTGTCTTTCTCTCTCCCTCTCCACACCTCACACACATACTCCCACTTGC
AACTATTCTGTTTCTCTCTCTGGGCTCCCCACTTTCCCTTCCCCACCCACTTGTATGCTCTGGAATCTGTGGAG
ACGCCAGCCCTGCCAATCAGAGATGCCAAAAATGGGGACATGACTTCTGGACAGAGGACATGGGCCACGCCCC
ATGCATCCCCACCCCGCCCCCTCCGGACGGCTTACTTACCTCATACGCAGCTCATCTTAAACCAATAGAATCGCT
CGGTGGACGAGAGTGTCTGACTCAGATATCTACCTCGGAGGGAGTTCTGCTACTTTAGGGAATTATTGACTGGG
CTTTGGGGTTGAACTTTTTTTTTTTTAAAGAAAGAAAAAGAAACCCTGGGATCCATCTGTTTTTTTTTGTGTGT
TGTTGTTTTTGTGTGTGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT
TTTTTTTTTTTATAAATATGTTGATTCTTGCTTTTTTTTTTTTATTCTTACTTTCCCATATTAGGGGTGATAGC
CAAAGGGGTCTGGTAAGAGAAAGGGGGACAAACAGAACTGGTAAAGAGGCCCCCTGGCTCCAGGCCTGTCCAT
CAGGAAGTAAATTTTACAGGGCACCAAGCTTTGCCCCCTAAAATCCCTTAGGTGTTCTTTGTTTCATGCAGGCAGG
TTTCTGCCGCATTTGATGTGGAGGCAGTGAAGGGCTTGCCCTGCTGGCCTCTCATCCCCCTTCTTCCACAAACC
TTGGGCAGGGCTGGACTCAGTAATTTGAGGAAATGAAGATGCCATCTTCCCTGTGAGTGACATGCTTTAAT
TTTTTAAAAACTACTATTTGAAAATTGGAGGGGAAGAATGGGAAGGGAGTTATTGCCAAATATGTTAAATATG
GGTGGGGTGCTTGTATATGTATCTTCTCAATTTCCCCATAAATGAGGTATCTTTTTGTACACACCAAATCAAG
GGGTAGGGAGAGGGAGGAGGTTGCAAAAAGCCAGATGTGGGGGAAAAGTAACATCAACACTGTCCCATCTCAGC
CCTGAAGTACCTACCATCTGATCCCTCAGACATTTCTCAGGATTTTACAAGACTGTGAGTGGGGAACCCCTCC
CATTAAGATCCGGGCAGGACTGGGGACAGGTTGGAAGTGTGATGGGTGGGGGGGTGGGAGGCATGGGCCGGGG
CAGTTCTCTCTCACTTGTAACCTGTGTAGTTTACAGAAAAAAACAAAATGCAGTTTTAAATAAGAAATTT
CTTTTT

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FIGURE 1957A

AGAAGGTAGCAGACAGACAGACGGATCTAACCTCTCTTGGATCCTCCAGCCATGAGGCTGCTCTGGGGGCTGATC
TGGGCATCCAGCTTCTTCACCTTATCTCTGCAGAAGCCCAGGTTGCTCTTGTCTCTCCTTCTGTGGTTTCATCTG
GGGGTCCCCCTATCGGTGGGGGTGCAGCTCCAGGATGTGCCCCGAGGACAGGTAGTGAAAGGATCAGTGTTCCTG
AGAAACCCATCTCGTAATAATGTCCCCCTGCTCCCCAAAGGTGGACTTCACCCTTAGCTCAGAAAGAGACTTCGCA
CTCCTCAGTCTCCAGGTGCCCTTGAAAGATGCGAAGAGCTGTGGCCTCCATCAACTCCTCAGAGGCCCTGAGGTC
CAGCTGGTGGCCCATTCGCCATGGCTAAAGGACTCTCTGTCCAGAACGACAAACATCCAGGGTATCAACCTGCTC
TTCTCCTCTCGCCGGGGGCACCTCTTTTTGCGAGACGGACCAGCCCATTTACAACCTGGCCAGCGGGTTTCGGTAC
CGGGTCTTTGTCTCTGGATCAGAAGATGCGCCCCGAGCACTGACACCATCACAGTCATGGTGGAGAATCTCACGGC
CTCCGCGTGCGGAAGAAGGAGGTGTACATGCCCTCGTCCATCTTCCAGGATGACTTTGTGATCCCAGACATCTCA
GAGCCAGGGACCTGGAAGATCTCAGCCCCGATTCTCAGATGGCCTGGAATCCAACAGCAGCACCCAGTTTGAGGTG
AAGAAATATGTCTTCCCAACTTTGAGGTGAAGATCACCCCTGGAAAGCCCTACATCCTGACGGTGCCAGGCCAT
CTTGATGAAATGCAGTTAGACATCCAGGCCAGGTACATCTATGGGAAGCCAGTGCAGGGGGTGGCATATGTGCGC
TTTGGGCTCCTAGATGAGGATGGTAAGAAGACTTTCTTTCGGGGGCTGGAGAGTCAGACCAAGCTGGTGAATGGA
CAGAGCCACATTTCCCTCTCAAAGGCAGAGTTCAGGACGCCCTGGAGAAGCTGAATATGGGCATTACTGACCTC
CAGGGGCTGCGCCTCTACGTTGCTGCAGCCATCATTGAGTATCCAGGTGGGGAGATGGAGGAGGCAGAGCTCACA
TCCTGGTATTTTGTGTCATCTCCCTTCTCCTTGGATCTTAGCAAGACCAAGCGACACCTTGTGCCTGGGGCCCC
TTCTGCTGCAGGCCCTTGGTCCGTGAGATGTGAGGCTCCCCAGCTTCTGGCATTCTGTCAAAGTTTCTGCCACG
GTGTCTTCTCTGGGTCTGTTCTGAAGTCCAGGACATTCAGCAAAACACAGACGGGAGCGGCCAAGTCAGCATT
CCAATAATTATCCCTCAGACCATCTCAGAGCTGCAGCTCTCAGTATCTGCAGGCTCCCCACATCCAGCGATAGCC
AGGCTCACTGTGGCAGCCCCACCTTCAGGAGGCCCCGGGTTTCTGTCTATTGAGCGGCCGATTCTCGACCTCCT
CGTGTGGGGACACTCTGAACCTGAACCTTGCGAGCCGTGGGCAGTGGGGCCACCTTTTCTCATTACTACTACATG
ATCCTATCCCGAGGGCAGATCGTGTTCATGAATCGAGAGCCCAAGAGGACCCTGACCTCGGTCTCGGTGTTTGTG
GACCATCACCTGGCACCCCTCCTTCTACTTTGTGGCCTTCTACTACCATGGAGACCACCCAGTGGCCAACCTCCCTG
CGAGTGGATGTCCAGGCTGGGGCCTGCGAGGGCAAGCTGGAGCTCAGCGTGGACGGTGCCAAGCAGTACCGGAAC
GGGGAGTCCGTGAAGCTCCACTTAGAAACCGACTCCCTAGCCCTGGTGGCGCTGGGAGCCTTGGACACAGCTCTG
TATGCTGCAGGCAGCAAGTCCACAAAGCCCCCAACATGGGCAAGGTCTTTGAAGCTATGAACAGCTATGACCTC
GGCTGTGGTCTCGGGGGTGGGGACAGTGCCCTTCAGGTGTTCCAGGCAGCGGGCCTGGCCTTTTCTGATGAGGAC
CAGTGGACCTTATCCAGAAAGAGACTAAGCTGTCCCAAGGAGAAGACAACCCGGAAGAGAAACGTGAACCTC
CAAAAGGCGATTAATGAGAAATTGGGTGAGTATGCTTCCCCGACAGCCAAGCGCTGCTGCCAGGATGGGGTGACA
CGTCTGCCCATGATGCGTTCCTGCGAGCAGCGGGCAGCCCGCTGCAGCAGCCGACTGCCGGAGCCCTTCTCTG
TCCTGCTGCCAATTTGCTGAGAGTCTGCGCAAGAAGAGCAGGGACAAGGGCCAGGCGGGCCTCCAACGAGCCCTG
GAGATCCTGCAGGAGGAGGACCTGATTGATGAGGATGACATTCCCGTGCGCAGCTTCTTCCAGAGAACTGGCTC
TGAGAGTGGAAACAGTGGACCGCTTCAAATATTGACACTGTGGCTCCCCGACTCTCTGACCACGTGGGAGATC
CATGGCCTGAGCCTGTCCAAAACCAAGGCCTATGTGTGGCCACCCAGTCCAGCTCCGGGTGTTCCGCGAGTTC
CACCTGCACCTCCGCTGCCCATGTCTGTCCGCCGCTTTGAGCAGCTGGAGCTGCGGCCTGTCTCTATAACTAC
CTGGATAAAAACCTGACTGTGAGCGTCCACGTGTCCCAAGTGGAGGGGCTGTGCTTGGCTGGGGGCGGAGGGCTG
GCCCAGCAGGTGCTGGTGCCTGCGGGCTCTGCCCGGCTTGTGCTTCTCTGTGGTGCCACGGCAGCCGCCGCT
GTGCTCTGAAGGTGGTGGCTCGAGGGTCTTCAATTCCTGTGGGAGATGCGGTGTCCAAGGTCTGCAGATT
GAGAAGGAAGGGGCCATCCATAGAGAGGAGCTGGTCTATGAACTCAACCCCTTGGACCACCGAGGCCGACCTTG
GAAATACCTGGCAACTCTGATCCCAATATGATCCCTGATGGGGACTTTAACAGCTACGTCAGGGTTACAGCCTCA
GATCCATTGGACACTTTAGGCTCTGAGGGGGCCTTGTACACAGGAGGCGTGGCCTCCCTCTTGAGGCTTCTCGA
GGCTGTGGGGAGCAACCATGATCTACTTGGCTCCGACACTGGCTGCTTCCCGCTACCTGGACAAGACAGAGCAG
TGGAGCACACTGCCCTCCGAGACCAAGGACCAGCCGTGGATCTGATCCAGAAAGGCTACATGCGGATCCAGCAG
TTTCGGAAGGCGGATGGTTCCTATGCGGCTTGGTTGTACGCGGCAGCAGCACCTGGCTCACAGCCTTTGTGTTG
AAGTCTCTGAGTTTGGCCAGGAGCAGGTAGGAGGATCGCCTGAGAACTGCAGGAGACATCTAACTGGCTTCTG
TCCAGCAGCAGGCTGACGGCTCGTTCCAGGACCTCTCTCCAGTGATACATAGGAGCATGCAGGGGGGTTTGGTG
GGCAATGATGAGACTGTGGCACTCACAGCCTTTGTGACCATCGCCCTTATCATGGGCTGGCCGCTTCCAGGAT
GAGGCTGCAGAGCCATTGAAGCAGAGAGTGAAGCCTCCATCTCAAAGGCAAGCTCATTTTTTGGGGGAGAAAGCA

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FIGURE 1957B

AGTGCTGGGCTCCTGGGTGCCCCACGCAGCTGCCATCACGGCCTATGCCCTGACACTGACCAAGGCCCCCTGCGGAC
CTGCGGGGTGTTGCCCACAACAACCTCATGGCAATGGCCCAGGAGACTGGAGATAACCTGTACTGGGGCTCAGTC
ACTGGTTCTCAGAGCAATGCCGTGTGCCCCACCCCGGCTCCTCGCAACCCATCCGACCCCATGCCCCAGGCCCCA
GCCCTGTGGATTGAAACCACAGCCTACGCCCTGCTGCACCTCCTGCTTCACGAGGGCAAAGCAGAGATGGCAGAC
CAGGCTGCGGCCTGGCTACCCCGTCAGGGCAGCTTCCAAGGGGGATTCCGCAGTACCCAAGACACGGTGATTGCC
CTGGATGCCCTGTCTGCCCTACTGGATTGCCCTCCACACCACTGAGGAGAGGGGTCTCAATGTGACTCTCAGCTCC
ACAGGCCGGAATGGGTTCAAGTCCCACGCCTGCAGCTGAACAACCGCCAGATTTCGCGGCCTGGAGGAGGAGCTG
CAGTTTTCCTTGGGCAGCAAGATCAATGTGAAGGTGGGAGGAAACAGCAAAGGAACCCCTGAAGTCCCTTCGTACC
TACAATGTCCTGGACATGAAGAACACGACCTGCCAGGACCTACAGATAGAAGTGACAGTCAAAGGCCACGTGCGAG
TACACGATGGAAGCAAACGAGGACTATGAGGACTATGAGTACGATGAGCTTCCAGCCAAGGATGACCCAGATGCC
CCTCTGCAGCCCGTGACACCCCTGCAGCTGTTTGAGGGTTCGGAGGAACCGCCGAGGAGGGAGCGCCCAAGGTG
GTGGAGGAGCAGGAGTCCAGGGTGCACTACACCGTGTGCATCTGGCGGAACGGCAAGGTGGGGCTGTCTGGCATG
GCCATCGCGGACGTACCCCTCCTGAGTGGATTCCACGCCCTGCGTGCTGACCTGGAGAAGCTGACCTCCCTCTCT
GACCGTTACGTGAGTCACTTTGAGACCGAGGGGCCCCACGTCTGCTGTATTTTACTCGGTCCCCACCTCCCGG
GAGTGCCTGGGCTTTGAGGCTGTGCAGGAAGTGCCGTTGGGGCTGGTGCAGCCGGCCAGCGCAACCCCTGTACGAC
TACTACAACCCCGAGCGCAGATGTTCTGTGTTTTACGGGGCACCAAGTAAGAGCAGACTCTTGGCCACCTTGTGT
TCTGCTGAAGTCTGCCAGTGTGCTGAGGGGAAGTGCCCTCGCCAGCGTCGCGCCCTGGAGCGGGGTCTGCAGGAC
GAGGATGGCTACAGGATGAAGTTTGCTGTACTACCCCGTGTGGAGTACGGCTTCCAGGTTAAGGTTCTCCGA
GAAGACAGCAGAGCTGCTTTCCGCCTCTTTGAGACCAAGATCACCCAAGTCTGCACTTCACCAAGGATGTCAAG
GCCGCTGCTAATCAGATGCGCAACTTCTGGTTCGAGCCTCCTGCCGCTTTCGCTTGGAACCTGGGAAAGAATAT
TTGATCATGGGTCTGGATGGGGCCACCTATGACCTCGAGGGACACCCCAAGTACCTGCTGGACTCGAATAGCTGG
ATCGAGGAGATGCCCTCTGAACGCCTGTGCCGGAGCACCCGCCAGCGGGCAGCCTGTGCCCAGCTCAACGACTTC
CTCCAGGAGTATGGCACTCAGGGGTGCCAGGTGTCAGGGCTGCCCTCCACCTCCGCTGGGAGGAACCTGAACCT
GGGAACCATGAAGCTGGAAGCACTGCTGTGTCCGCTTTCATGAACACAGCCTGGGACCAGGGCATATTAAAGGCT
TTTGGCAGCAAAGTGTCAGTGTGGC

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FIGURE 1958

MRLWGLIWASSFFTLSQLKPRLLLFSPSVVHLGVPLSVGVQLQDVPRGQVVKGSVFLRNPSRNNVPCSPKVDF
LSSERDFALLSLQVPLKDAKSCGLHQLLRGPEVQLVAHSPWLKDSLSRTTNIQGINLLFSSRRGHLFLQTDQPIY
NPGQVRVRYRVFALDQKMRPSTDTITVMVENSHGLRVRKKEVYMPSSIFQDDFVIPDISEPGTWKISARFSDGLES
NSSTQFEVVKYVLPNFVKITPGKPYILTPVGHLDQMQLDIQARYIYGKPVQGVAYVRFGLLDEDGKKTFFRGLE
SQTCLVNGQSHISLSKAEFQDALEKLNMGITDLQGLRLYVAAAIIEYPPGEMEEAELTSWYFVSSPFLDLSKTK
RHLVPGAPFLLQALVREMSGSPASGIPVKVSATVSSPGSVPEVQDIQNTDGSQVSIPIIIPQTISELQLSVSA
GSPHPAIARLTVAAPPSGGPGFLSIERPDSRPPRVGDTLNLNLRAVGSATFSHYIYMILSRGQIVFMNREPRT
LTSVSFVVDHHLAPSFYFVAFYHGDHPVANSRVDVQAGACEGKLELSVDGAKQYRNGESVKLHLETDSLALVA
LGALDTALYAAGSKSHKPLNMKGKVFAMNSYDLGCGPGGGDSALQVFQAAGLAFSDGDQWTLRKRRLSCPKEKT
RKKRNVNFQKAINKLGQYASPTAKRCCQDGVTRLPMMSRCEQRAARVQQPDCREPFLLSCCQFAESLRKKS
QAGLQRALEILQEEDLIDEDDIPVRSFFPENWLWRVETVDRFQIILTLWLPDSLTTWEIHGLSLSKTKGLCVATPV
QLRVFREFHLHLRLPMSVRRFEQLELRPVLYNYLDKNLTVSVHVSPVEGLCLAGGGGLAQQVLVPAGSARPVAFS
VVPTAAAASVSLKVVARGSFEFPVGDAVSKVLQIEKEGAIHREELVYELNPLDHRGRTLEIPGNSDPNMIPDGD
SYVRVTASDPLDTLGSEGLSPGGVASLLRLRPGCGEQMTIYLAPTAAASRYLDKTEQWSTLPPETKDHAVDLIQ
KGYMRIQQFRKADGSYAAWLSRGSSTWLTAFVLKVLSLAQEQVGGSPKLETSNWLLSQQADGSFQDLSPVIH
RSMQGGVLVGNDETVALTAFVTIALHHGLAVFQDEGAEPKQKQVEASISKASSFLGEKASAGLLGAHAAAITAYAL
TLTKAPADLRGVAHNNLMAMAQETGDNLYWGSVTGSQSNVSPTPAPRNPSDPMQAPALWIETTAYALLHLLH
EGKAEMADQAAAWLTRQGSFQGGFRSTQDTVIALDALSAWISHTTEERGLNVLSTGRNGFKSHALQLNNRQ
IRGLEELQFSLGSKINVKVGGNSKGTCLKVLRITYNVLDKNTTCQDLQIEVTVKGHVEYTMEANEDYEDYEDL
PAKDDPDAPLQPVTPQLQFEGRRNRREAPKVVEEQESRVHYTVCIWRNGKVGLSGMAIADVTLLSGFHALRAD
LEKLTSLSDRYVSHFETEGPHVLLYFDSVPTSRECVGFQVQVGLVQPASATLYDYNPERRCSVYFYGAPSK
SRLATLCSAEVCQCAEGKCPQRALERGLQDEDDGYRMKFACYPRVEYGFQVKVLRSDRAAFRLFETKITQV
LHFTKDVKAAANQMRNFLVRASCRLRLEPGKEYLIMGLDGATYDLEGHPOYLLDSNSWIEEMPSERLCRSTRQRA
ACAQLNDFLQEYGTQGCQV

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FIGURE 1959

AGGGGAAGGGAATGTGACCAGGTCTAGGTCTGGAGTTTCAGCTTGGACACTGAGCCAAGCAGACAAGCAAAGCAA
GCCAGGACACACCATCTGCCCCAGGCCAGCTTCTCTCCTGCCTTCCAACGCCATGGGGAGCAATCTCAGCCCC
CAACTCTGCCTGATGCCCTTTATCTTGGGCTCTTGTCTGGAGGTGTGACCACCACTCCATGGTCTTTGGCCAG
CCCCAGGGATCCTGCTCTCTGGAGGGGTAGAGATCAAAGCGGCTCCTTCCGACTTCTCCAAGAGGGCCAGGCA
CTGGAGTACGTGTGTCTTCTGGCTTCTACCCGTACCTGTGCAGACACGTACCTGCAGATCTACGGGGTCTTG
AGCACCTGAAGACTCAAGACCAAAAGACTGTCAAGGAAGGCAGAGTGCAGAGCAATCCACTGTCCAAGACCACAC
GACTTCGAGAACGGGGAATACTGGCCCCGGTCTCCCTACTACAATGTGAGTGTGAGATCTCTTTCCACTGCTAT
GACGGTTACTCTCTCCGGGGCTCTGCCAATCGCACCTGCCAAGTGAATGGCCGGTGGAGTGGGCAGACAGCGATC
TGTGACAACGGAGCGGGTACTGCTCCAACCCGGGCATCCCATTTGGCACAAGGAAGGTGGGCAGCCAGTACCGC
CTTGAAGACAGCGTCACCTACCACTGCAGCCGGGGCTTACCCTGCGTGGCTCCCAGCGGCGAAGCTGTCAAGAA
GGTGGCTCTTGGAGCGGGACGGAGCCTTCTGCCAAGACTCCTTCATGTACGACACCCCTCAAGAGGTGGCCGAA
GCTTTCTGTCTTCCCTGACAGAGACCATAGAAGGAGTGCATGCTGAGGATGGGCACGGCCAGGGGAACAACAG
AAGCGGAAGATCGTCCTGGACCCCTCAGGCTCCATGAACATCTACCTGGTGTAGATGGATCAGACAGCATTGGG
GCCAGCAACTTCACAGGAGCCAAAAAGTGTCTAGTCAACTTAATTGAGAAGGTGGCAAGTTATGGTGTGAAGCCA
AGATATGGTCTAGTGACATATGCCACATACCCCAAAATTTGGGTCAAAGTGTCTGAAGCAGACAGCAGTAATGCA
GACTGGGTACGAAGCAGCTCAATGAAATCAATTATGAAGACCACAAGTTGAAGTCAGGGACTAACACCAAGAAG
GCCCTCCAGGCAGTGTACAGCATGATGAGCTGGCCAGATGACGTCCCTCCTGAAGGCTGGAACCGCACCCGCCAT
GTCATCATCCTCATGACTGATGGATTGCACAACATGGGCGGGGACCCAATTACTGTCATTGATGAGATCCGGGAC
TTGCTATACATTGGCAAGGATCGCAAAAACCCAAGGGAGGATTATCTGGATGTCTATGTGTTTGGGGTCGGGCCT
TTGGTGAACCAAGTGAACATCAATGCTTTGGCTTCCAAGAAAGACAATGAGCAACATGTGTTCAAAGTCAAGGAT
ATGGAAAACCTGGAAGATGTTTTCTACCAAATGATCGATGAAAGCCAGTCTCTGAGTCTCTGTGGCATGGTTTG
GAACACAGGAAGGGTACCGATTACCACAAGCAACCATGGCAGGCCAAGATCTCAGTCATTGCCCCCTTCAAAGGGA
CACGAGAGCTGTATGGGGGCTGTGGTGTCTGAGTACTTTGTGCTGACAGCAGCACATTGTTTCACTGTGGATGAC
AAGGAACACTCAATCAAGGTCAGCGTAGGAGGGGAGAAGCGGGACCTGGAGATAGAAGTAGTCCTATTTACCCC
AACTACAACATTAATGGGAAAAAAGAAGCAGGAATTCCTGAATTTTATGACTATGACGTTGCCCTGATCAAGCTC
AAGAATAAGCTGAAATATGGCCAGACTATCAGGCCCATTTGTCTCCCTGCACCGAGGGAACAACCTCGAGCTTG
AGGCTTCTCTCCAACTACCACTTGCCAGCAACAAAAGGAAGAGCTGCTCCCTGCACAGGATATCAAAGCTCTGTTT
GTGTCTGAGGAGGAGAAAAAGCTGACTCGGAAGGAGGTCTACATCAAGAATGGGGATAAGAAAGGCAGCTGTGAG
AGAGATGCTCAATATGCCCCAGGCTATGACAAAGTCAAGGACATCTCAGAGGTGGTCACCCCTCGGTTCTTTGT
ACTGGAGGAGTGAGTCCCTATGCTGACCCCAATACTTGCAAGGTGATTCTGGCGGGCCCTTGATAGTTTACAAG
AGAAGTCGTTTCAATTCAAGTTGGTGTAAATCAGCTGGGGAGTAGTGGATGTCTGCAAAAACCAGAAGCGGCAAAAG
CAGGTACCTGCTCAGCCCCGAGACTTTCACATCAACCTCTTTCAAGTGCTGCCCTGGCTGAAGGAGAACTCCAA
GATGAGGATTTGGGTTTTCTATAAGGGGTTTTCTGCTGCACAGGGCGTGGGATTGAATTAACAGCTGCGACA
AC

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FIGURE 1960

MGSNLSPLCLMPFILGLLSGGVTTTTPWSLAQPQGSCLGVEIKGGSFRLQEGQALEYVCPSGFYYPVQTRT
CRSTGSWSTLKTQDQKTVRKAECRAIHCPRP HDFENGEYWPRSPYYNVSDEISFHCYDGYTLRGSANRTCQVNGR
WSGQTAICDNGAGYCSNPGIPIGTRKVG SQYRLED SVTYHCSRGLTLRGSQRRTCQEGGSWSGTEP SCQDSFMYD
TPQEVAEAFLLSSTETIEGVDAEDGHGPGEQQKRKIVLDPSGSMNIYLVLDGSDSIGASNFTGAKKCLVNLIEKV
ASYGVKPRYGLVTYATYPKIWVKVSEADSSNADWVTQKQNEINYEDHKLKSGTNTKKALQAVYSMMSWPDDVPPE
GWNRRHVIIILMTDGLHNMGGDPITVIDEIRDLLYIGKDRKNPREDYLDVYVFGVGPLVNQVNINALASKKDNEQ
HVFVKDMENLEDVFYQMIDESQSLSLCGMVWEHRKGT DYHKQPWQAKISVIRPSKGHESCMGAVVSEYFVLTA
HCFTVDDKEHSIKVSVGGEKRDLEIEVVL FHPNYNINGKKEAGIPEFYDYDVALIKLKNKLKYQTIRPICLPCT
EGTTRALRLPPTTTTCQQQKEELLPAQDIKALFVSEEEKLTRKEVYIKNGDKKGSCERDAQYAPGYDKVKDISEV
VTPRFLCTGGVSPYADPNTCRGDSGGPLIVHKRSRFIQVGVISWGVVDVCKNQKRQKQVPAHARDFHINLFQVLP
WLKEKLQDEDLGL

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FIGURE 1961

GGTCCCAAGGCTTTCAGAGCGAACCTGTGCGGCTGCAGGCACCGCGTGTGAGTTCCGGCGTTCCGAAGGAC
TGAGCTCTTGTGCGGGATCCCGTCCGCCGTTTCCAGCCCCAGTCTCAGAGCGGAGCCACAGAGCAGGGCACCG
GCATGGCCAAAGCCGCGGCGATCGGCATCGACCTGGGCACACCTACTCCTGCGTGGGGGTGTTCCAACACGGCA
AGGTGGAGATCATCGCCAACGACCAGGGCAACCGCACCCCCAGCTACGTGGCCTTCACGGACACCGAGCGGC
TCATCGGGGATGCGGCCAAGAACCAGGTGGCGCTGAACCCGAGAACACCGTGTTTGACGCGAAGCGGCTGATCG
GCCGCAAGTTCGCGGACCCGGTGGTGCAGTCCGACATGAAGCACTGGCCTTTCAGGTGATCAACGACGGAGACA
AGCCCAAGGTGCAAGTGAGCTACAAGGGGGAGACCAAGGCATTCTACCCCGAGGAGATCTCGTCCATGGTGTGA
CCAAGATGAAGGAGATCGCCGAGGCGTACCTGGGCTACCCGGTGACCAACGCGGTGATCACCGTGCCGGCCTACT
TCAACGACTCGCAGCGCCAGGCCACCAAGGATGCGGGTGTGATCGCGGGGCTCAACGTGCTGCGGATCATCAACG
AGCCACAGGCCCGCCCATCGCCTACGGCCTGGACAGAACGGGCAAGGGGGAGCGCAACGTGCTCATCTTTGACC
TGGGCGGGGGCACCTTCGACGTGTCCATCCTGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGG
ACACCCACCTGGGTGGGGAGGACTTTGACAACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACA
AGAAGGACATCAGCCAGAACAAGCGAGCCGTGAGGCGGCTGCGCACCGCTGCGAGAGGGCCAAGAGGACCTGT
CGTCCAGCACCCAGGCCAGCCTGGAGATCGACTCCCTGTTTGAGGGCATCGACTTCTACACGTCCATCACAGGG
CGAGGTTTCGAGGAGCTGTGCTCCGACCTGTTCCGAAGCACCTGGAGCCCGTGGAGAAGGCTCTGCGCGACGCCA
AGCTGGACAAGGCCCAGATTACGACCTGGTCTGGTCCGGGGGCTCCACCCGCATCCCCAAGGTGCAGAAGCTGC
TGCAGGACTTCTTCAACGGGCGCGACCTGAACAAGAGCATCAACCCCGACGAGGCTGTGGCCTACGGGGCGCGCG
TGCAGGCGGCCATCTGATGGGGGACAAGTCCGAGAACGTGCAGGACCTGCTGCTGCTGGACGTGGCTCCCTGT
CGCTGGGGCTGGAGACGGCCGGAGGCGTGATGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGA
CGCAGATCTTACCACCTACTCCGACAACCAACCCGGGGTGCTGATCCAGGTGTACGAGGGCGAGAGGGCCATGA
CGAAAGACAACAATCTGTTGGGGCGCTTCGAGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCG
AGGTGACCTTCGACATCGATGCCAACGGCATCCTGAACGTACGGCCACGGACAAGAGCACCGGCAAGGCCAGCA
AGATCACCATCACCAACGACAAGGGCCGCTGAGCAAGGAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAGT
ACAAAGCGGAGGACGAGGTGCAGCGCGAGAGGGTGTGAGCCAAGAAGCCCTGGAGTCTTACGCCTTCAACATGA
AGAGCGCCGTGGAGGATGAGGGGCTCAAGGGCAAGATCAGCGAGGCGGACAAGAAGAAGGTTCTGGACAAGTGT
AAGAGGTGATCTCGTGGCTGGACGCCAACACCTTGGCCGAGAAGGACGAGTTGAGCACAAGAGGAAGGAGCTGG
AGCAGGTGTGTAACCCCATCATCAGCGGACTGTACCAGGTGCCGGTGGTCCCGGGCCTGGGGGCTTCGGGGCTC
AGGGTCCCAAGGGAGGGTCTGGGTGAGGCCCTACCATTGAGGAGGTGGATAGGGGCCTTTGTCTTTAGTATGT
TTGTCTTTGAGGTGGACTGTTGGGACTCAAGGACTTTGCTGCTGTTTTCCATGTGATTTCTGCTTCAGCTCTTT
GCTGCTTCACTTCTTTGTAAAGTTAAGTTGTAACCTGATGGTAATTAGCTGGCTTCATTATTTTGTAGTACAAC
CGATATGTTTATTAGAATTCTTTGCATTTAATGTTGATACTGTAAGGTGTTTCGTTCCCTTTAAATGAATCAAC
ACTGCCACCTTCTGTACGAGTTTGTTTTTTTTTTTTTTTTTTTTTTTTGGCTTGGCGAAACACTACAAAGGC
TGGAATGTATGTTTTATAATTTGTTTATTTAAATATGAAAAATAAAATGTAAACTTT

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FIGURE 1962

MAKAAAIGIDLGTITYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDKRLIG
RKFGDPVVQSDMKHWPFFQVINDGDKPKVQVSYKGETKAFYPEEISSMVLTKMKEIAEAYLGYPVTNAVITVPAYF
NDSQRQATKDGVIAGLNLVRIINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTDFDVSILTIDDGIFEVKATAGD
THLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRRRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGAAV
QAAILMGDKSENVQDLLLLDVAPLSLGLTAGGVM TALIKRNSTIPTKQTQIFTTYSNQPGLIQVYEGERAMT
KDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKASKITITNDKGRLSKEEIERMVQEAKEY
KAEDVQRERVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE
QVCNPIISGLYQGAGGPGPGGFGAQGPKGGSGSGPTIEVD

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FIGURE 1963

GCTGCTGCGACAGTCCACTACCTTTTTTCGAGAGTGACTCCCGTTGTCCCAAGGCTTCCCAGAGCGAACCTGTGCG
GCTGCAGGCACCGGCGCTCGAGTTTCCGGCGTCCGGAAGGACCGAGCTCTTCTCGCGGATCCAGTGTTCCGTTT
CCAGCCCCAATCTCAGAGCCGAGCCGACAGAGAGCAGGGAACCGGCATGGCCAAAGCCGCGGCGATCGGCATCG
ACCTGGGCACCACCTACTCCTGCGTGGGGGTGTTCCAACACGGCAAGGTGGAGATCATCGCCAACGACCAGGGCA
ACCGCACCACCCAGCTACGTGGCCTTCACGGACACCGAGCGGCTCATCGGGGATGCGGCCAAGAACCAGGTGG
CGCTGAACCCGACAGAACACCGTGTTGACGCGAAGCGGCTGATCGGCCGCAAGTTCGGCGACCCGGTGGTGCACT
CGGACATGAAGCACTGGCCTTTCCAGGTGATCAACGACGGAGACAAGCCCAAGGTGCAGGTGAGCTACAAGGGGG
ACACCAAGGCATTCTACCCCGAGGAGATCTCGTCCATGGTGCTGACCAAGATGAAGGAGATCGCCGAGGCGTACC
TGGGCTACCCGGTGACCAACGCGGTGATCACCCTGCCGGCTACTTCAACGACTCGCAGCGCCAGGCCACCAAGG
ATGCGGGTGTGATCGCGGGGTCAACGTGCTGCGGATCATCAACGAGCCACGGCCGCCCATCGCCTACGGCC
TGGACAGAACGGGCAAGGGGGAGCGCAACGTGCTCATCTTTGACCTGGGCGGGGGACCTTCGACGTGTCCATCC
TGACGATCGACGACGGCATCTTCGAGGTGAAGGCCACGGCCGGGGACACCCACCTGGGTGGGGAGGACTTTGACA
ACAGGCTGGTGAACCACTTCGTGGAGGAGTTCAAGAGAAAACACAAGAAGGACATCAGCCAGAAACAGCGAGCCG
TGAGGCGGCTGCGCACCGCCTGCGAGAGGGCCAAGAGGACCCTGTCTGTCAGCACCCAGGCCAGCCTGGAGATCG
ACTCCCTGTTTGAGGGCATCGACTTCTACACGTCCATCACCAGGGCGAGGTTTCGAGGAGCTGTGCTCCGACCTGT
TCCGAAGCACCCCTGGAGCCCGTGGAGAAGGCTCTGCGCGACGCCAAGCTGGACAAGGCCCAGATTACGACCTGG
TCCTGGTTCGGGGGTCCACCCGCATCCCAAGGTGCAGAAGCTGCTGCAGGACTTCTTCAACGGGCGCGACCTGA
ACAAGAGCATCAACCCGACGAGGCTGTGGCCTACGGGGCGGGGTCAGGCGGCCATCCTGATGGGGGACAAGT
CCGAGAACGTGCAGGACCTGCTGCTGCTGGACGTGGCTCCCCTGTCTGCTGGGGTGGAGACGGCCGGAGGCGTGA
TGACTGCCCTGATCAAGCGCAACTCCACCATCCCCACCAAGCAGACGCAGATCTTACCACCTACTCCGACAACC
AACCCGGGGTGTGATCCAGGTGTACGAGGGCGAGAGGGCCATGACGAAAGACAACAATCTGTTGGGGCGCTTCG
AGCTGAGCGGCATCCCTCCGGCCCCCAGGGGCGTGCCCCAGATCGAGGTGACCTTCGACATCGATGCCAACGGCA
TCCTGAACGTACGGCCACGGACAAGAGCACCGGCAAGGCCAACAAGATCACCATCACCACGACAAGGGCCGCC
TGAGCAAGGAGGAGATCGAGCGCATGGTGCAGGAGGCGGAGAAGTACAAAGCGGAGGACGAGGTGCAGCGCGAGA
GGGTGTGAGCCAAGAAGCCCTGGAGTCTACGCCTTCAACATGAAGAGCGCCGTGGAGGATGAGGGGCTCAAGG
GCAAGATCAGCGAGGCCGACAAGAAGAAGGTGCTGGACAAGTGTCAAGAGGTGATCTCTGTTGGTGGACGCCAACA
CCTTGGCCGAGAAGGACGAGTTTGTAGCACAGAGGAAGGAGCTGGAGCAGGTGTGTAACCCCATCATCAGCGGAC
TGTACAGGGTGCCTGGTGGTCCCGGGCCTGGGGGCTTCGGGGCTCAGGGTCCCAAGGGAGGGTCTGGGTGAGGCC
CCACCATTGAGGAGGTAGATTAGGGGCCTTTCCAAGATTGCTGTTTTTGTGTTTGGAGCTTCAAGACTTTGCATTT
CCTAGTATTTCTGTTTGTGAGTTCTCAATTTCTGTGTTTGAATTTTGGTGAAGTACTGAAGTT
GCTTTTTTCCGGTTTCTACATGCAGAGATGAATTTATACTGCCATCTTACGACTATTTCTTCTTTTAATACAC
TTAACTCAGGCCATTTTTTAAGTTGGTTACTTCAAAGTAAATAAACTTTAAATCAAGTGA

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FIGURE 1964

MAKAAAIGIDLGTITYSCVGVFQHGKVEIIANDQGNRTTPSYVAFTDTERLIGDAAKNQVALNPQNTVFDAKRLIG
RKFGDPVVQSDMKHWPQVINDGDKPKVQVSYKGDTKAFYPEEISSMVLTKMKEIAEAYLGYPVTVNAVITVPAYF
NDSQRQATKDAGVIAGLNVLRINEPTAAAIAYGLDRTGKGERNVLIFDLGGGTFDVSILTIDDGIFEVKATAGD
THLGGEDFDNRLVNHFVEEFKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQASLEIDSLFEGIDFYTSITRA
RFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEAVAYGA
QAAILMGDKSENVQDLLLLDVAPLSLGLETAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGERAMT
KDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAKEY
KAEDEVQREVSAKNALESYAFNMKSAVEDEGLKGKISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELE
QVCNPIISGLYQGAGGPGPGGFGAQGPKGGSGSGPTIEEVD

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FIGURE 1965

GGCTTCCTCCTCCCCTCTACTCTACCCAGCTTGCGCTCCCCAGCCGCAAGTCGGCCGCGCTTTGCCCCGTCAGCGC
TTGGAGCTTTCTGCGTCGCTTCCCGCTGCGCCTGCGCGGTCCCGCCTCGCCCCACGCGCGGGCTCGCGCTTCGGT
TTCCCCAGACCTGCTCGCAGCACCTGCTGTCTTCCCGGTCCGGCCCGCTGCCCCGCGCGCCAGCACCCATGCTCT
TCTATTCTTTTTTCAAGTCCCTTGTTGGGCAAGGATGTGGTTCGTGGAATAAAGAATGACCTGAGCATCTGTGGAA
CCCTCCATTCTGTGGATCAGTATCTCAACATCAAATACTGACATCAGTGTACAGACCCTGAGAAATACCCTC
ACATGTTATCAGTGAAGAACTGCTTCATTGCGGGCTCAGTGGTCCGATACGTGCAGCTGCCAGCAGATGAGGTG
ACACACAGTTGCTACAGGATGCGGCAAGGAAGGAAGCCCTGCAGCAGAAACAGTGATGGCTCCTCCTCCTCTTCC
CCTCCCTCTTTTATTGGTGACCCATAACCCCAAGTCCCAGCCCAGAACCCCTAACCCCAATACTTGAAGGGGTT
TTGTTTTTTTACTAATGATGTTTTGTGGGTTTTTTTTAAGGGATGAGTGGATGAGAGGAGTAATAGGGAACAGC
TATCCTCTCTTGAGAAGGGGAGGATAAGTAGGCTGGGAACTTCAAAGCCTTCCCAGTCCCAGCACCTGCCTTT
CTCACTACTTCTCTGGAGATGGTAGGAGAGTTTCTAGGTCTTCCAGGGCAGCATGTGATTCAATTTGGGGATGG
AAGGAATCTGTCCCGCATCGGAATAAAATTTATGATGC

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FIGURE 1966

MLFYSEFFKSLVGKDVVELKNDLSICGTLHSVDQYLNKLTDISVTDPEKYPHMLSVKNCFIRGSVVRVQLPAD
EVDLTQLLQDAARKEALQQKQ

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FIGURE 1967A

GTCACAAAGGGGGGAACACGTGGGCGCCGGCTGCCGGGGCGGCGATCTTAGGGAACTAGGGTCACCTGGAGAGCC
GCCCACCGTCTCTGCCCCGCTCGACTCCTCCGCCCGGGCCGCTCGGCCGGTCCAGCCGCGGGCCGGCGCTGGCTGT
GAGGTGGATTCCCGGCCAGTCTGACCATCTCCCTCCAGTTTTTCCACTTCGTTCCGACCTTCTCATAACTATGT
CCACCCCTCTACGTCTCCCTCACCAGATGCCCTTCCCCAGCCTCCGAGCCCTCATAGCCGCTCGCTATGGGGAGG
CTGGGGAGGGTCCCGGATGGGGAGGAGCCACCCCCGCATCTGTCTCCAGCCACCCCCGACTAGCAGGACTCCCT
TTCCCCCACC CGCTGCCGGCCCTGGAGCAGGGGGCCCGGTGGGCTCTGGGTGTGGGGGGCCACGGCTGTGGCCC
AGCTGTGTGGCCAGCAGGCCTGGGGGGCCAGGGGGCAGCCGGGCGGTGTCTTGTCCAACAGTGGGTCAGTT
ACGCCGACACGGAGTTAATACCAGCTGCCTGTGGAGCAACGCTGCCGGCCCTGGGACTCCGAAGCTCGGCCCAGG
ACCCCCAGGCTGTGCTGGGGGGCCCTGGGCAGGGCCCTGAGCCCCCTGGAGGAGTGGCTTCGGCTGCACACCTACT
TGGCCGGGGAGGCCCCCACTCTGGCTGACCTGGCGGCTGTACAGCCTTGCTGTGCCTTTCCGATACGTCTTAG
ACCCACCTGCCCGCCGGATCTGGAATAATGTGACTCGCTGTTTGTACAGTGTGTCCGGCAGCCAGAATTCCGAG
CCGTGCTAGGAGAAGTGGTTCTATACTCAGGAGCCAGGCCTCTCTCTCATCAGCCAGGCCCCGAGGCTCCTGCC
TCCCAAAGACAGCTGCTCAGCTCAAGAAAGAGGCAAAGAAACCGGGAGAAGCTAGAGAAATTCCAACAGAAGCAGA
AGATCCAACAGCAGCAGCCACCTCCAGGGGAGAAGAAACCAAAACAGAGAAGAGGGAGAAACCGGATCCTGGGG
TCATTACCTATGACCTCCCAACCCACCCGGGGAAAAGAAAGATGTGAGTGGCCCCATGCCGACTCCTACAGCC
CTCGGTATGTGGAGGCTGCCTGGTACCTTGGTGGGAGCAGCAGGGCTTCTTCAAGCCAGAGTATGGGCGTCTTA
ATGTGTCAGCAGCAAATCCCCGAGGTGTCTTCATGATGTGCATCCACCCCCCAATGTGACAGGCTCCCTGCACC
TGGGCCATGCACTACCAACGCCATCCAGGACTCCCTGACTCGATGGCACCGCATGCGTGGGGAGACCACCTGT
GGAACCCTGGCTGTGACCATGCAGGTATTGCCACCCAGGTGGTGGTGGAGAAGAAGCTATGGCGTGAGCAGGGAC
TGAGCCGGCACCAGCTGGGCCCGCAGGCCTTTCTACAGGAAGTCTGGAAGTGAAGGAGGAGAAAGGTGACCGGA
TTTACCACAGTTGAAGAAGCTTGGCAGCTCCTTGGACTGGGATCGAGCCTGTTTACCATGGACCTAAACTCT
CAGCAGCTGTGACAGAGCCTTTGTCCGGCTTCACGAGGAAGGCATCATCTATCGCAGTACCCGCTTGTAACT
GGTCTGCACCCTCACTCCGCCATCTCTGACATTGAGGTGGATAAGAAGGAGCTGACAGGTCGCACCCTGCTCT
CCGTGCTGGCTACAAGGAGAAGGTGGAGTTCCGGGTCTCGTGTCTTTGCCTATAAGGTCCAAGGCTCAGATA
GCGACGAGGAGGTGGTGGTGGCAACAACCTCGGATCGAGACAATGCTGGGAGATGTGGCTGTAGCTGTGCACCCCA
AAGATACCAGATACCAGCACCTGAAGGGGAAGAACGTGATCCACCCATTCTGTCTCGGAGCCTTCCCATTTGTCT
TCGATGAATTTGTGGACATGGACTTTGGCACAGGTGCTGTGAAGATCACCCCGCACATGACCAAAATGACTATG
AAGTTGGGCAGCGGCACGGGCTGGAGGCCATCAGCATCATGGACTCCCGGGGGGCCCTCATCAATGTGCCTCCGC
CTTTCTGGGCCTGCCAGGTTTGAGGCCAGGAAAGCGGTGCTGGTGGCGCTGAAGGAGCGGGGACTGTTCCGTG
GCATTGAGGACAACCCCATGGTGGTGGCACTTTGCAACCGGTGCAAGGACGTGGTAGAGCCTCTGCTGCGGCCGC
AGTGGTACGTTTCGTGCGGGGAGATGGCCAGGCTGCCAGCGCGCTGTGACTCGGGGTGACCTCCGCATCCTGC
CTGAGGCCCCATCAGCGCATGGCATGCCTGGATGGACAACATCCGGGAGTGGTGCATTTCCAGGCAGCTGTGGT
GGGGCCATCGCATCCAGCCTACTTTGTCACTGTCACTGACCCAGCGGTGCCCTTGGGGAGGACCCTGATGGGC
GGTACTGGGTGAGTGGACGCAATGAGGCGGAGGCCCGGGAGAAGGCAGCCAAGGAGTTCGGAGTGTCCCCTGACA
AGATCAGTCTCCAGCAAGATGAGGATGTATTGGATACCTGGTTCTCCTCTGGCCTCTTCCCTTATCCATTTGG
GCTGGCCCAACCAGTCAGAAGACCTGAGTGTGTTCTACCCCGGGACACTGCTGGAGACCGGTATGACATCCTCT
TCTTCTGGGTGGCCCGATGGTCTATGCTGGGCCTGAAGCTCACGGGAGGCTGCCCTTTAGAGAGGTCTACCTCC
ATGCCATCGTGCAGATGCTCACGGCCGGAAGATGAGCAAGTCTCTAGGCAATGTATCGATCCCCTGGATGTCA
TCTATGGAATCTCCCTGCAGGGCCTCCACAACCAGCTGCTGAACAGCAACCTGGATCCCAGCGAGGTGGAGAAGG
CCAAAGAAGGGCAGAAAGCTGACTTCCAGCGGGGATTCTGAATGTGGCACCAGTGTCTCCGGTTTGGATTAT
GTGCTACATGTCCAGGGTCGTGACATCAACCTGGATGTGAACCGGATACTGGGTTACCGCCACTTCTGCAACA
AGCTCTGGAATGCCACCAAGTTTGCCTTCGTGGCCTTGGGAAGGGTTTGTGCCCTCACCCACCTCCAGCCCCG
GAGGCCATGAGAGCCTGGTGGACCGCTGGATCCGACGCCCTGACAGAGGCTGTGAGGCTCAGCAATCAAGGCT
TCCAGGCCTACGACTTCCCGGCCGTACCACTGCCAGTACAGCTTCTGGCTCTATGAGCTCTGTGATGTCTACT
TGGAGTGCCTGAAACCTGTACTGAATGGGGTGGACCAGGTGGCAGCTGAGTGTGCCCGCCAGACCCTGTACTT
GCCTGGACGTTGGCTGCGGCTGCTCTACCCCTTCATGCCCTTCGTGACGAGGAGCTGTTCCAGAGGCTGCCCC
GGAGGATGCCGCAAGCTCCCCCTAGCCTCTGTGTTACCCCTACCCGAGCCCTCAGAGTGCTCCTGGAAGGACC
CCGAGGCAGAAGCCGCCCTTGAGCTGGCGCTAAGCATACGCGAGCCGTGCGCTCCCTGCGGGCCGACTACAACC

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FIGURE 1967B

TCACCCGGATCCGGCCTGACTGTTTCCTGGAAGTGGCGGATGAGGCCACGGGCGCCCTGGCATCGGCGGTGTCGG
GCTACGTGCAGGCCCTGGCCAGCGCAGGTGTGGTGGCTGTTCTGGCCCTGGGGGCTCCCGCCCCCAGGGTTGCG
CTGTGGCTCTGGCTTCTGATCGCTGCTCCAATCCACCTGCAGCTTCAGGGGCTGGTGGACCCTGCACGGGAGCTGG
GCAAGCTGCAAGCCAAGCGAGTTGAGGCCAGCGGCAGGCCAGCGTCTGCGGGAACGCCGTGCTGCCTCGGGCT
ATCCTGTCAAGGTGCCGCTCGAAGTCCAGGAGGCAGATGAAGCCAAGCTCCAACAGACAGAAGCAGAGCTCAGGA
AGGTGGATGAGGCCATCGCCCTATTCCAGAAGATGCTGTGATCCACCACCCAGCTTCACCCCTCACCCCAGCGG
CTCACCATGGGGATGGCAGCAATAAAATATTTTCCACAAAA

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FIGURE 1968

MSTLYVSPHPDAFP SLRALIAARYGEAGEGPGWGGAHPRICLQPPPTSRTPFPPRLPALEQGPGLWVWGATAV
AQLLWPAGLGGPGGSRAAVLVQQWVSADTELIPAACGATLPALGLRSSAQDPQAVLGALGRALSPLEEWRLHT
YLAG EAPT LADLA AVTALLLPFRYVLDPPARRIWNVTRWFVTCVRQPEFRAVLGEVVLVYSGARELSHQPGPEAP
ALPKTAAQLKKEAKKREKLEKFQKQKIQQQPPPGEEKPKPEKREKRDPGVITYDLPTPPGEKKDVSGMPDSY
SPRYVEAAWYPWWEQQGFFKPEYGRPNVSAANPRGVFMMCIPPNVTGSLHLGHALTNAIQDSLTRWHRMRGETT
LWNPGCDHAGIATQVVVEKKLWREQGLSRHQLGREAFLOEVWKWKEEKGDRIYHQLKKLGSSLDWDRACFTMDPK
LSAAVTEAFVRLHEEGIIYRSTRLVNWSCTLNSAISDIEVDKKELTGRTLLSVPGYKEKVEFGVLVSFAYKVQGS
DSDEEVVVATTRIETMLGDVAVAVHPKDTRYQHLKGKNVIHPFLSRSLPIVFDEFVDMDFGTGAVKITPAHDQND
YEVGQRHGLEAISIMDSRGALINVPPFPLGLPRFEARKAVLVALKERGLFRGIEDNPMVVP LCNRSKDVVEPLL R
PQWYVRCGEMAQAASAAVTRGDLRILPEAHQRTWHAWMDNIREWCISRQLWWGHRIPAYFVTVSDPAVPPGEDPD
GRYWVSGRNEAEAREKAAKEFGVSPDKISLQQDEVDLDTWFS SGLFPLSILGWPNQSEDLSVFYPGTLLETGHD I
LFFWVARMVMLGLKLTGRLPFREVYLHAIVRDAHGRKMSKSLGNVIDPLDVIYGISLQGLHNQLNSNLDPSEVE
KAKEGQKADFPAGIPEC GTDALRFGLCAYMSQGRDINLDVNRILGYRHFCNKLWNATKFALRGLGKGFVP SPTSQ
PGGHESLVDRWIRSRLTEAVRLSNQGFQAYDFPAVTTAQYSFWLYELCDVYLECLKPVLNGVDQVAECARQTL Y
TCLDVGLRLLSPFMPFVTEELFQRLPRRMPQAPPSLCVTPYPEPSECSWKDPEAEAALELALSITRAVRS LRADY
NLTRIRPDCFLEVADEATGALASAVSGYVQALASAGVAVLALGAPAPQGCAVALASDRCSIHLQLQGLVDPARE
LGKLQAKRVEAQRQAQRLRERRAASGYPVKVPLEVQEAD EAKLQQTEAELRKVDEAIALFQKML

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FIGURE 1969

GCGGCTCTCTGATCCAGCCCGGGAGAGGACCGAGCTGGAGGAGCTGGGTGTGGGGTGCGTTGGGCTGGTGGGGAG
GCCTAGTTTGGGTGCAAGTAGGTCTGATTGAGCTTGTGTTGTGCTGAAGGGACAGCCCTGGGTCTAGGGGAGAGA
GTCCCTGAGTGTGAGACCCGCCTTCCCCGGTCCCAGCCCTCCCAGTTCCCCCAGGGACGGCCACTTCCTGGTCC
CCGACGCAACCATGGCTGAAGAACAACCGCAGGTCGAATTGTTTCGTGAAGGCTGGCAGTGATGGGGCCAAGATTG
GGAAGTGGCCATTCTCCAGAGACTGTTTCATGGTACTGTGGCTCAAGGGAGTCACCTTCAATGTTACCACCGTTG
ACACCAAAGGCGGACCGAGACAGTGCAGAAGCTGTGCCAGGGGGGAGCTCCCATTCTGCTGTATGGCACTG
AAGTGCACACAGACACCAACAAGATTGAGGAATTTCTGGAGGCAGTGCTGTGCCCTCCCAGGTACCCCAAGCTGG
CAGCTCTGAACCTGAGTCCAACACAGCTGGGCTGGACATATTTGCCAAATTTCTGCCTACATCAAGAATTCAA
ACCCAGCACTCAATGACAATCTGGAGAAGGGACTCCTGAAAGCCCTGAAGGTTTTAGACAATTACTTAACATCCC
CCCTCCAGAAGAAGTGGATGAAACCAGTGTGAAGATGAAGGTGTCTCTCAGAGGAAGTTTTTGGATGGCAACG
AGCTCACCTGGCTGACTGCAACCTGTTGCCAAAGTTACACATAGTACAGGTGGTGTGTAAGAAGTACCGGGGAT
TCACCATCCCCGAGGCCITCCGGGGAGTGCAATCGGTACTTGAGCAATGCCTACGCCCCGGAAGAATTCGCTTCCA
CCTGTCCAGATGATGAGGAGATCGAGCTCGCCTATGAGCAAGTGGCAAAGGCCCTCAAATAAGCCCCCTCCTGGGA
CTCCCTCAACCCCTCCATTTCTCCACAAAGGCCCTGGTGGTTTCCACATTGCTACCCAATGGACACACTCCAA
AATGGCCAGTGGGCAGGGAATCCTGGAGCACTTGTTCCGGGATGGTGTGGTGGGAAGAGGGGATGAGGGAAAGAAA
TGGGGGGCCTGGGTGAGATTTTATTGTGGGTGGGTGAGTAGGACAACATATTTAGTAATAAAATACAGAAT
AAAAATCAAGTGTTTTTAAAAAAA

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FIGURE 1970

MAEEQPQVELFVKAGSDGAKIGNCPFSQRLFMVLWLKGVTFNVTTVDTKRRTETVQKLCPPGGQLPFLLYGTEVHT
DTNKIEEFLEAVLCPPRYPKLAALNPESNTAGLDIFAKFSAYIKNSNPALNDNLEKGLLKALKVLDNYLTSPLPE
EVDETSAEDEGVSQRKFLDGNELTLADCNLLPKLHIVQVVCKKYRGFTIPEAFRGVHRYLSNAYAREEFASCPD
DEEIELAYEQVAKALK

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FIGURE 1971

ATGAGCAGCTCAGAGGAGG[†]GTCTGGATTTCCTGGTTCTGTGGGCTCCGTGGCAATGAATTCTTCTGTGAAGTG
GATGAAGACTACATCCAGGACAAATTTAATCTTACTGGACTCAATGAGCAGGTCCCTCACTACCGACAAGCTCTA
GACATGATCTTGGACCTGGAGCCTGATGAAGAAGTGAAGACAACCCCAACCAGAGTGACCTGATTGAGCAGGCA
GCCGAGATGCTTTATGGATTGATCCACGCCCGCTACATCCTTACCAACCGTGGCATCGCCAGATGTTGGAAAAG
TACCAGCAAGGAGACTTTGGTTACTGTCTCGTGTGTACTGTGAGAACCAGCCAATGCTTCCCATTGGCCTTTCA
GACATCCCAGGTGAAGCCATGGTGAAGCTCTACTGCCCCAAGTGCAATGGATGTGTACACACCCAAGTCATCAAGA
CACCATCACACGGATGGCGCCTACTTCGGCACIGGTTTCCCTCACATGCTCTTCATGGTGCATCCCGAGTACCGG
CCCAAGAGACCTGCCAACCAGTTTGTGCCCAGGCTCTACGGTTTCAAGATCCATGCGATGGCCTACCAGCTGCAG
CTCCAAGCCGCCAGCAACTTCAAGAGCCCAGTCAAGACGATTTCGCTTGA

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FIGURE 1972

MSSSEEVSWISWFCGLRGNEFFCEVDEDYIQDKFNLTGLNEQVPHYRQALDMILDLEPDEELEDNPNQSDLIEQA
AEMLYGLIHARYILTNRGIAQMLEKYQOGDFGYCPRVYCENQPMLEIGLSDIPGEAMVKLYCPKCMDVYTPKSSR
HHHTDGAYFGTGFPMLFMVHPEYRKRPNQFVPRLYGFKIHAMAYQLQLQAASNFKSPVKTIR

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FIGURE 1973A

TAGTGCACGCACGCAGGCGTAGTACGGTCCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT
CCCACCTAGGCCGGCCCCGGCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC
CCACAAAAGTAAAGCTTGGGGACCTGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA
CGGAAGTGGCCGTCGGTGGCAGGTTTGGGGGAGACCGGAAGTGACGAGACCTGTGCGCCATGGAGCCTAATGATA
GTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCT
TTATTGTGGGGGCCAGATGAATGTAAAGAGTTTAAGGAGCACATTGCTGCCTCTGTGAGCATCCCATCTGAAA
AACACGGCTCATTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGG
TTATCCACCTGGTGGAACGGGCTCCTCCTCAGACTACCTTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCCT
CAGCCACTCATGGTGGGGGATCCCCCCTGGTACTCGGGGGCTGGGGCTCTGTTTCATGACCGGAATGCCAACA
GCTATGTTCATGGTTGGAACCTTCAATCTTCCTAGTGACGGCTCTGCTGTGGATGTTACATCAACATGGAACAGG
CCCCGATTGAGAGTGGCCCCGGGTACGGCTGGTGTGAGCTCAGCACATGATCAGGGATATACAGACCTTACTAT
CCCGGATGGAGACTCTCCCTACCTTCACTGTGAGGAGGGCCCCAACCCGAGCAGTACGCGCCCCCGCAGC
CACCAGCTGTGACCCCGAGCCAGTAGCCTTGAAGCTCTCAAACATCAGAACAGTTGAAAGTGAAGCACCTCCCC
GGGAGCCCATGGAGGCAGAAGAAGTGGAGGAGCGTGCCCCAGCCAGAACCCGAGCTCACTCCTGGCCAGCCC
CAGCGGGCCCAACACCTGCCCCGAAACAAATGCACCAACCATCCTTCCCTGCGGAGTATGTGAGGTGCTCC
AGGAGCTACAGCGGCTGGAGAGTCGCTCCAGCCCTTCTTGACGCGCTACTACGAGGTTCTGGGTGCTGCTGCCA
CCACGACTACAATAACAATCACGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTTGGTAGGGGAGAGCCTGC
GACTGTGGGCAACACCTTGTGTGACTGTCTGACCTGCGCTGCAATCTGGCCTGCACGCCCCACGACACCTGC
ATGTGGTCCGGCCTATGTCTCACTACACCAACCCCATGGTGTCTCAGCAGGCAGCCATTCCCATACAGATCAATG
TGGGAACCACTGTGACCATGACAGGAAATGGGACTCGGCCCCCCCCCACTCCCAATGCAGAGGCACCTCCCCCTG
GTCTTGGGCAGGCCTCATCCGTGGCTCCGTCTTCTACCAATGTGAGTCTCAGCTGAGGGGGCTCCCCGCCAG
GTCCAGCTCCCCCGCCAGCCACCCAGCCACCCGAGGGTATCCGGATTTCACCAGAGTGTGGAACCCGTGGTCA
TGATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTGGTGTTCGAGTGCTCCCACTGGCCCCCTGGGAC
CCCCCTGGTCATGGCCAAACCTGGGACAGCAGGTGCCAGGCTTCCCAACAGCTCCAACCCGGGTGGTATTGCC
GGCCCACTCCTCCACAGGCTCGGCCTTCCCATCCTGGAGGGCCCCAGTCTCTGGGACACTGCAGGGCGCCGGTC
TGGGTACCAATGCCTCGTTGGCCAGATGGTGAGCGGCCTTGTGGGGCAGCTTCTTATGCAGCAGTCTCTGTGG
CTCAGGGGACCCAGGTATGGCTCCACCGCCAGCCCCCTGCCACTGCTTCTGCCAGTGTGGCACCACCAACACAG
CTACCACAGCTGGCCCCGCTCCTGGGGGGCTGCCAGCCTCCACCCACCCCTCAACCCCTCATGGTGTATCTTC
AGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCTGCAGGGCCAGGGCTGGAGGGCTGGTGTGGCTTCTCCCA
CCATCACTGTGGCGATGCCTGGTGTCCCTGCCCTTCTCCAAGGCATGACTGACTTCTTGACAGCAACACAGACAG
CCCCCTCCACCACCCCACTCCTCCACCCCAACCTGCCCCAGAGCAGCAGACCATGCCCCCACCAGGCTCCC
CTTCTGGTGGCGCAGGGAGTCTGGAGGCCTGGGTCTTGAGAGCCTGTACCCGAGTTTATTACCTCAGTGGTGC
AGGGTGTGCTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGGCTGGCAGCAGTGAAGTATTGCTGCTTCATAC
AACGCCTCAGTGGATCCAGCAACATCTTTGAGCCTGGAGCTGATGGGGCCCTGGATTCTTTGGGGCCTTGCTTT
CTCTTCTGTGCCAGAACTTCTATGGTGGACGTAGTGATGCTTCTCCATGGGCATTTCAGCCACTACAACGGC
TCCAGCCCCAGCTGCGATCCTTCTTCCACCAGCACTACCTGGGTGGTCAGGAGCCACACCCAGTAACATCCGGA
TGGCAACCCACACATTGATCACGGGGCTAGAAGAGTATGTGCGGGAGAGTTTTCTTGGTGCAGGTTAGCCAG
GTGTGGACATCATCCGGACAAACCTGGAATTTCTCCAAGAGCAGTTTAATAGCATTGCTGCGCATGTGCTGCATT
GCACAGATAGTGGATTGGGGCCCGGTTGCTGGAGTTGTGTAAACCAAGGCCTGTTTGAATGCCTGGCCCTAAACC
TGCACTGCTTGGGGGGACAGCAGATGGAGCTTGTGCTGTTATCAATGGCCGAATTCTGTCGATGTCTCGTGGGG
TGAATCCCTCCTTGGTGGAGCTGGCTGACCACTATGATGGGAGCTGAGGCTTTCAGGTGGTACTGGAGCACATGCCTG
TAGGCCCTGATGCCATTCTCAGATACGTTTCGAGGGTGGTGATCCCCCAGCCACTTCTGAGGAGCCAAATGG
AAGTTTCAGGGAGCAGAAAGAGCTTCCCTGAGCCTCAGCGGGAGAATGCTTCCCAAGCCCTTGGAAACAACAGCAG
AAGAGGCCATGTCCCGAGGTCCACCTCCTGCTCCTGAGGGGGGCTCCCGGGATGAACAGGATGGAGCTTACGCTG
AGACAGAACCTTGGGCAGCTGCAGTCCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTAGAGCCAGCGGA
AGGTGAAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTGGTATGCCTGCCAAGAGACGCAAGACGATGCAGG
GTGAGGGCCCCCAGCTGCTTCTCTCAGAGGCTGTGAGCCGGGAGCTAAGGCAGCCGAGCTCGGCCCTGACGA
CCCCGAGAGCCTGAGCCGGGACCTGGAGGCACAGAGGTTTCAGGAGAGCTACAGGCAGCAGCTCCGGTCTGATA

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FIGURE 1973B

TACAAAAACGACTGCAGGAAGACCCCAACTACAGTCCCCAGCGCTTCCCCAATGCCAGCGGGCCTTTGCTGATG
ATCCTTAGCTCTTTGCTCTATGGCCCTTCCTCATCAGGGGACCGTTTCCCCCTCTTCCTTCACAGTATTTAAGA
AATAAAAGTCGGATTTTCTGGC

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FIGURE 1974

MEPNDSTSTAVEEPDSLEVLVKTLDSQTRTFIVGAQMNKFEKHEIAASVSIPSEKQRLIYQGRVLQDDKKLQEY
NVGGKVIHLVERAPPQTHLPSGASSGTGSASATHGGGSPPGTRGPGASVHNRNANSYVMVGTFLNPSDGSADVH
INMEQAPIQSEPRVRLVMAQHMRDIQTLLSRMETLPYLQCRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEPVE
SEAPPREPMEAEVEERAPAQNPELTGPGAPAGTTPAPETNAPNHPSPA EYVEVLQELQRLSRLQPFLLQRYEYEV
LGAAATTDYNNHEGREEDQRLINLVGESLRLGNTFVALSDLRCNLACTPPRHLHVVRPMSHYTTMPVLQQAII
PIQINVGTITMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSSTNVESAEAGPPPGPAPPPATSHPRVIRISHQS
VEPVVMMHMNIQDSGTQPGGVPSAPTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGT
LQGAGLGTNASLAQMVSGLVGQLMQPVLVAQGTGPMAPPPAPATASASAGTTNTATTAGPAGGPAQPPPTQP
SMADLQFSQLLGNLLGPAGPGAGGPGVASPTITVAMPGVPAFLQGMTDFLQATQTAPPPPPPPPPPPAPEQQT
PPPGSPSGGAGSPGGLGLESLSPEFFTSVVQGVLSLLGSLGARAGSSSIAAFIQRLSGSSNIFEPGADGALGF
FGALLSLLCQNFMSVDVVMLLHGHFQPLQRLQPLRSFFHQHYLGGQEPTPSNIRMATHLITGLEEYVRESFSL
VQVQPGVDIIRTNLEFLQEQFNSIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQOMELAAVINGRIR
RMSRGVNP SLVSWLTMMGLRLQVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENASPA
PGTTAEAMSRGPPPAPEGGSRDEQDGASAETEPWAAVPPPEWVPIIQDIIQSQRKVKPQPFLLSDAYLSGMPAKR
RKTMQGEGPQLLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRFNAQ
RAFADDP

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FIGURE 1975A

TAGTGCACGCACGCAGGCGTAGTACGGTCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT
CCCACCTAGGCCGGCCCCGGCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC
CCACAAAAGTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA
CGGAAGTGGCCGTGCGGTGGCAGGTTTGGGGGAGACCGGAAGTGACGAGACCTGTCGGCCATGGAGCCTAATGATA
GTACCAGTACCGCTGTGGAGGAGCCTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCT
TTATTGTGGGGGCCAGATGAATGTAAAAGAGTTTAAAGGAGCACATTGCTGCCTCTGTGAGCATCCCATCTGAAA
AACAACGGCTCATTTACCAGGGACGAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACAATGTTGGGGGAAAGG
TTATCCACCTGGTGAACGGGCTCCTCCTCAGACTCACCTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCT
CAGCCACTCATGGTGGGGGATCCCCCCTGGTACTCGGGGGCCTGGGGCCTCTGTTTCATGACCGGAATGCCAACA
GCTATGTCATGGTTGGAACCTTCAATCTTCCCTAGTGACGGCTCTGCTGTGGATGTTTCACATCAACATGGAACAGG
CCCCGATTGAGAGTGAGCCCCGGGTACGGCTGGTGATGGCTCAGCACATGATCAGGGATATACAGACCTTACTAT
CCCGGATGGAGTGTGAGGAGGGCCCCAACCGCAGCACAGTCAGCCGCCCCCGCAGCCACCGGCTGTGACCCCGG
AGCCAGTAGCCTTGAGCTCTCAAACATCAGAACCAGTTGAAAGTGAAGCACCTCCCCGGGAGCCCCATGGAGGCAG
AAGAAGTGGAGGAGCGTGCCCCAGCCAGAACCCGGAGCTCACTCCTGGCCCAGCCCCAGCGGGCCCCAACACCTG
CCCCGAAACAAATGCACCCAACCATCCTTCCCTGCGGAGTATGTCGAGGTGCTCCAGGAGCTACAGCGGCTGG
AGAGTCGCCTCCAGCCCTTCTTGACGCGCTACTACGAGGTCTGGGTGCTGCTGCCACCACGGACTACAATAACA
ATCACGAGGGCCGGGAGGAGGATCAGCGGTTGATCAACTTGGTAGGGGAGAGCCTGCGACTGCTGGGCAACACCT
TTGTTGCACGTCTGACCTGCGCTGCAATCTGGCCTGCACGCCCCACGACACCTGCATGTGGTCCGGCTATGT
CTCACTACACCACCCCATGGTGCTCCAGCAGGCAGCCATTCCCATACAGATCAATGTGGGAACCACTGTGACCA
TGACAGGAAATGGGACTCGGCCCCCCCCAACTCCCAATGCAGAGGCACCTCCCCCTGGTCTGGGCAGGCCTCAT
CCGTGGCTCCGTCTTCTACCAATGTCGAGTCCTCAGCTGAGGGGGCTCCCCGCCAGGTCCAGCTCCCCGCCAG
CCACCAGCCACCCGAGGGTCATCCGGATTTCCACCAGAGTGTTGAACCCGTGGTTCATGATGCACATGAACATTC
AAGATTCTGGCACACAGCCTGGTGGTGTTCGAGTGCTCCCACTGGCCCCCTGGGACCCCTGGTTCATGGCCAAA
CCCTGGGACAGCAGGTGCCAGGCTTCCCAACAGCTCCAACCCGGGTGGTGATTGCCCGGCCCACTCCTCCACAGG
CTCGGCCTTCCATCCTGGAGGGCCCCAGTCTCTGGGACACTGCAGGGCGCCGGTCTGGGTACCAATGCCTCGT
TGGCCCAGATGGTGAGCGGCCTTGTGGGGCAGCTTCTTATGCAGCCAGTCCTTGTGGCTCAGGGGACCCAGGTA
TGCTCCACCGCCAGCCCTGCCACTGCTTCTGCCAGTGCTGGCACCACCAACACAGCTACCACAGCTGGCCCCG
CTCCTGGGGGGCCTGCCAGCCTCCACCACCCCTCAACCTCCATGGCTGATCTTCAGTTCTCTCAGCTTCTGG
GGAACCTGCTAGGGCCTGCAGGGCCAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCACCATCACTGTGGCAGTC
CTGGTGCTCCTGCCTTCTCCAAGGCATGACTGACTTCTTGAGGCAACACAGACAGCCCTCCACCACCCAC
CTCCTCCACCCCAACCACTGCCCAAGCAGCAGACCATGCCCCACAGGCTCCCTTCTGGTGGCGCAGGGA
GTCTTGAGGCCTGGGTCTTGAGAGCCTGTCAACGGAGTTTTCACCTCAGTGGTGCAGGGTGTGCTCAGCTCCC
TGCTGGGCTCCTGGGGGCTCGGGCTGGCAGCAGTGAAAGTATTGCTGCCCTCATACAACGCCTCAGTGGATCCA
GCAACATCTTTGAGCCTGGAGCTGATGGGGCCCTTGGATTCTTGGGGCCTTGCTTCTCTTCTGTGCCAGAACT
TCTCTATGGTGGACGTAGTGATGCTTCTCATGGGCATTTCAGCCACTACAACGGCTCCAGCCCCAGCTGCGAT
CCTTCTTCCACCAGCACTACCTGGGTGGTCAGGAGCCACACCCAGTAACATCCGGATGGCAACCCACACATTGA
TCACGGGGCTAGAAGAGTATGTGCGGGAGAGTTTTTCTTGGTGACGTTTCAGCCAGGTGTGGACATCATCCGGA
CAAACCTGGAATTTCTCAAGAGCAGTTTAATAGCATTGCTGCGCATGTGCTGCATTGCACAGATAGTGGATTTG
GGGCCCCGTTGCTGGAGTTGTGTAACCAAGGCCTGTTTGAATGCCTGGCCCTAAACCTGCACTGCTTGGGGGGAC
AGCAGATGGAGCTTGTGCTGTTATCAATGGCCGAATTCGTGATGTCTCGTGGGGTGAATCCCTCCTTGGTGA
GCTGGCTGACCACTATGATGGGACTGAGGCTTCAGTGGTACTGGAGCACATGCCTGTAGGCCCTGATGCCATT
TCAGATACGTTTCGAGGGTTGGTGATCCCCCAGCCACTTCTGAGGAGCCAAATGGAAGTTTCAGGGAGCAGAAA
GAGCTTCCCTGAGCCTCAGCGGGAGAATGCTTCCCCAGCCCTGGAACAACAGCAGAAGAGGCCATGTCCCGAG
GTCCACCTCCTGCTCCTGAGGGGGGCTCCCGGGATGAACAGGATGGAGCTTCAGCTGAGACAGAACCTTGGGCAG
CTGCAGTCCCCCAGAATGGGTCCCTATTATCCAGCAGGACATTTCAGAGCCAGCGGAAGGTGAAACCGCAGCCCC
CTCTGAGTGATGCCTACCTCAGTGGTATGCCTGCCAAGAGACGCAAGACGATGCAGGGTGAAGGGCCCCAGCTGC
TTCTCTCAGAGGCTGTGAGCCGGGACGTAAGGCAGCCGGAGCTCGGCCCCTGACGAGCCCCGAGAGCCTGAGCC
GGGACCTGGAGGCACAGAGGTTTCAGGAGAGCTACAGGCAGCAGCTCCGGTCTGATATACAAAACGACTGCAGG

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FIGURE 1975B

AAGACCCCAACTACAGTCCCCAGCGCTTCCCAATGCCAGCGGGCCTTTGCTGATGATCCTTAGCTCTTTGCTC
TATGGCCCTTCCTCATCAGGGGACCGTTTCCCCCTCTTCCTCACAGTATTTAAGAAATAAAAGTCGGATTTT
CTGGC

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FIGURE 1976

MEPNDSTSTAVEEPDSLEVLVKTLDSQTRTFIVGAQMNVEKFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY
NVGGKVIHLVERAPPQTHLP SGASSGTGSASATHGGGSPFGTRGPGASVHDRNANSYVMVGTFNLPSDGSADVH
INMEQAPIQSEPRVRLVMAQHMIQTLISRMECRGGPQPHSQPPPQPPAVTPEPVALSSQTSEPVSESEAPPR
EPMEAEVEERAPAQNPELTPGPAPAGPTPAPETNAPNHPSPAEYVEVLQELQRLQESRLQPFQRYEVLGAAAT
TDYNNNHEGREEDQRLINLVGESLRLLGNTFVALSDLRCNLACTPPRHLHVVRPMSHYTTMVLQQAAPPIQINV
GTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSTNVESSAEGAPPPGPAPPPATSHPRVIRISHQSVEPVVM
MHMNIQDSGTQPGGVP S APTGPLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGTLQGAGL
GTNASLAQMVSGLVGQLMQPVLVAQGTGMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQPSMADLQ
FSQLLGNLLGPAGPGAGGSGVASPTITVAMPGVPAFLQGMIDFLQATQTAPPPPPPPPPPPPPAPEQQTMPPPGSP
SGGAGSPGGGLGLESLSPEFFTSVVQGVLSLLGSLGARAGSSEIAAFIQRLSGSSNIFEPGADGALGFFGALLS
LLCQNF SMVDVVMLLHGHFQPLQRLQPLRSFFHQHYLGGQEPTPSNIRMATHLITGLEEYVRESFSLVQVQPG
VDIIRTNLEFLQEQFNSIAAHVLHCTDSGFGARLLELCNQGLFECLALNLHCLGGQQMELAAVINGRIRMRSGV
NPSLVSWLTTMMGLRLQVLEHMPVGPDAILRYVRRVGDPPQPLPEEPMQVQGAERASPEPQRENASAPGTTAE
EAMSRGPPPAPEGGSRDEQDGASAETEPWAAAVPPEWVPIIQDDIQSQRKVKPQPPLSDAYLSGMPAKRRKTMQG
EGPQLLLSEAVSRAAKAAGARPLTSPELSRDLAEPVQESYRQQLRSDIQKRLQEDPNYSPQRFPAQRAFADD
P

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FIGURE 1977A

TAGTGCAGCGCACGCAGGCGTAGTACGGTCCCCGGGCGACAGCGGTGGCGGCTCCTCGGGGTGCTCGGCTCCCT
CCCACCTAGGCCGGCCCCGGCCCCGACTCGCCCTCAGAACTCACTGTTTGGGGCTGCGGACTTTCTCGTCGTGCC
CCACAAAAGTTAAAGCTTGGGGACCTGGGGGGAGCCGGAAGTATCGCTTCGAGATCCCCAAATACTATCGGGGAAA
CGGAAGTGGCCGTGGGTGGCAGAGACCTGTCCGGCCATGGAGCCTAATGATAGTACCACTACCGCTGTGGAGGAGC
CTGACAGCTTGGAGGTGTTGGTGAAGACCTTGGACTCTCAAACCTCGTACCTTTATTGTGGGGGGCCAGATGAATG
TAAAAGAGTTTAAAGAGCACATTGCTGCCTCTGTACGATCCCATCTGAAAAACAACGGCTCATTTACCAGGGAC
GAGTTCTGCAAGATGATAAGAAGCTTCAGGAATACATGTTGGGGGAAAGGTTATCCACCTGGTGGAAACGGGCTC
CTCCTCAGACTCACTCCCTTCTGGGGCATCTTCTGGGACGGGGTCTGCCTCAGCCACTCATGGTGGGGGATCCC
CCCCTGGTACTCGGGGGCCTGGGGCCTCTGTTTCATGACCGGAATGCCAACAGCTATGTATGGTTGGAACCTTCA
ATCTTCCTAGTGACGGCTCTGCTGTGGATGTTACATCAACATGGAACAGGCCCCGATTAGAGTGAGCCCCGGG
TACGGCTGGTGATGGCTCAGCACATGATCAGGGATATACAGACCTTACTATCCCGGATGGAGTGTGAGGAGGGC
CCCAACCGCAGCACAGTCAGCCGCCCCCGCAGCCACCGGCTGTGACCCCGGAGCCAGTAGCCTTGAGCTCTCAA
CATCAGAACCAGTTGAAAGTGAAGCACCTCCCCGGGAGCCCATGGAGGCAGAAGAAGTGGAGGAGCGTGCCCCAG
CCCAGAACCCGGAGCTCACTCCTGGCCAGCCCCAGCGGGCCCAACACCTGCCCCGGAACAAATGCACCCAACC
ATCCTTCCCCTGCGGAGTATGTGAGGTGCTCCAGGAGCTACAGCGGCTGGAGAGTCGCCTCCAGCCCTTCTTGC
AGCGCTACTACGAGGTCTGCGGTGCTGTGCCACCACGGACTACAATAACAATCACGAGGGCCGGGAGGAGGATC
AGCGGTTGATCAACTTGGTAGGGGAGAGCCTGCGACTGTGGGCAACACCTTGTGTGACTGTCTGACCTGCGCT
GCAATCTGGCCTGCACGCCCCACGACACCTGCATGTGTTCCGGCCTATGTCTACTACACCACCCCATGGTGC
TCCAGCAGGCAGCCATTCCCATACAGATCAATGTGGGAACCACTGTGACCATGACAGGAAATGGGACTCGGGCCC
CCCCAACTCCCAATGCAGAGGCACCTCCCCCTGGTCTGGGCAGGCCTCATCCGTGGCTCCGTCTTCTACCAATG
TCGAGTCTCAGCTGAGGGGGCTCCCCGCCAGGTCCAGCTCCCCGCCAGCCACCAGCCACCCGAGGGTCAATC
GGATTTCACCAGAGTGTGGAACCCGTGGTCATGATGCACATGAACATTCAAGATTCTGGCACACAGCCTGGTG
GTGTTCCGAGTGCTCCCACTGGCCCCCTGGGACCCCCCTGGTCATGGCCAAACCTGGGACAGCAGGTGCCAGGT
TCCCAACAGCTCCAACCCGGGTGGTGATTGCCCGGCCACTCTCCACAGGCTCGGCCCTCCCATCTGGAGGGC
CCCCAGTCTCTGGGACACTGCAGGGCGCCGGTCTGGGTACCAATGCCTCGTTGGCCAGATGGTGAGCGGCCCTG
TGGGGCAGCTTCTTATGCAGCCAGTCCTTGTGGCTCAGGGGACCCAGGTATGGCTCCACCGCCAGCCCCCTGCCA
CTGCTTCTGCCAGTGCTGGCACCACCAACACAGCTACCACAGCTGGCCCCGCTCCTGGGGGGCCTGCCAGCCTC
CACCCACCCCTCAACCTCCATGGCTGATCTTCAGTTCTCTCAGCTTCTGGGGAACCTGCTAGGGCCTGCAGGGC
CAGGGGCTGGAGGGTCTGGTGTGGCTTCTCCACCATCACTGTGGCGATGCCTGGTGTCCCTGCCTTCTCCAAG
GCATGACTGACTTCTTGCAGGCAACACAGACAGCCCCCTCCACACCCCCACCTCCTCCACCCCCACCACTGCCC
CAGAGCAGCAGACCATGCCCCACAGGCTCCCCCTTCTGGTGGCGCAGGGAGTCTGGAGGCCTGGGTCTTGAGA
GCCTGTACCCGGAGTTTTTTACCTCAGTGGTGAGGGTGTGCTCAGCTCCCTGCTGGGCTCCCTGGGGGCTCGGG
CTGGCAGCAGTGAAAGTATTGCTGCCTTCATAACAACGCTCAGTGGATCCAGCAACATCTTTAGCCTGGAGCTG
ATGGGGCCCTTGATTCTTTGGGGCCTTGCTTCTCTTCTGTGCCAGAACTTCTCTATGGTGGACGTAGTGATGC
TTCTCCATGGGCATTTCCAGCCACTACAACGGCTCCAGCCCCAGCTGCGATCCTTCTTCCACAGCACTACCTGG
GTGGTCAGGAGCCACACCCAGTAACATCCGGATGGCAACCACACATTGATCACGGGGCTAGAAGAGTATGTGC
GGGAGAGTTTTTCTTGGTGCAGGTTACAGCCAGGTGTGGACATCATCCGGACAAACCTGGAATTTCTCCAAGAGC
AGTTTAATAGCATTGCTGCGCATGTGCTGCATTGCACAGATAGTGGATTTGGGGCCCGGTTGCTGGAGTTGTGTA
ACCAAGGCCTGTTTGAATGCCTGGCCCTAAACCTGCACTGCTTGGGGGGACAGCAGATGGAGCTTGTGCTGTTA
TCAATGGCCGAATTCGTGCTATGTCTCGTGGGGTGAATCCCTCCTTGGTGAGCTGGCTGACCACTATGATGGGAC
TGAGGCTTCAGGTGGTACTGGAGCATGCCTGTAGGCCCTGATGCCATTCTCAGATACGTTTCGAGGGTTGGTG
ATCCCCCCAGCCACTTCTGAGGAGCCAATGGAAGTTACAGGAGCAGAAAGAGCTTCCCCCTGAGCCTCAGCGGG
AGAATGCTTCCCCAGCCCCCTGGAACAACAGCAGAAGAGGCCATGTCCGAGGTCCACCTCCTGCTCCTGAGGGGG
GCTCCCGGATGAACAGGATGGAGCTTCAGCTGAGACAGAACCTTGGGCAGCTGCAGTCCCCCAGAATGGGTCC
CTATTATCCAGCAGGACATTACAGCCAGCGGAAGGTGAAACCGCAGCCCCCTCTGAGTGATGCCTACCTCAGTG
GTATGCCTGCCAAGAGACGCAAGACGATGCAGGGTGAGGGCCCCAGCTGCTTCTCTCAGAGGCTGTGAGCCGGG
CAGCTAAGGCAGCCGGAGCTCGGCCCTGACGAGCCCCGAGAGCCTGAGCCGGGACCTGGAGGCACCAGAGGTTT
AGGAGAGCTACAGGCAGCAGCTCCGGTCTGATATACAAAACGACTGCAGGAAGACCCCAACTACAGTCCCCAGC

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FIGURE 1977B

GCTTCCCAATGCCAGCGGGCCTTTGCTGATGATCCTTAGCTCTTTGCTCTATGGCCCTTCCTCATCAGGGGAC
CGTTTCCCCCTCTTCCTTCACAGTATTTAAGAAATAAAAGTCGGATTTTCTGGCAAAAAAAAAAAAAAAAAAAAA
AAAA

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FIGURE 1978

MEPNDSTSTAVEEPDSLEVLVKTLDSQTRTFIVGAQMNVKEFKEHIAASVSIPSEKQRLIYQGRVLQDDKKLQEY
NVGGKVIHLVERAPPQTHLP,SGASSGTGSASATHGGGSPPGTRGPGASVHNRNANSYVMVGTFNLP,SDGSAVDVH
INMEQAPIQSEPRVRLVMAQHMIRDIQTLLSRMECRGGPQPQHSQPPPQPPAVTPEPVALSSQTSEPVESEAPPR
EPMEAEVEERAPAQNP,ELTPGPAPAGPTPAPETNAPNHP,SPA EYVEVLQELQRL,ESRLQPF,LRYYEVLGAAAT
TDYNNNHEGREEDQRLINLVGESLRL,LGNTFVALSD,LRCLACTP,PRHLHVVRPMSHYTT,PMVLQQA,APIQIN, V
GTTVTMTGNGTRPPPTPNAEAPPPGPGQASSVAPSSTNVESSAEGAPPPGAPPPATSHPRVIRISHQSV,EPVVM
MHMNIQDSGTQPGGVP,SAPTGFLGPPGHGQTLGQQVPGFPTAPTRVVIARPTPPQARPSHPGGPPVSGTLQAGL
GTNASLAQMV,SGLVGQLLMQPVLVAQGT,PGMAPPPAPATASASAGTTNTATTAGPAPGGPAQPPPTPQPSMADLQ
FSQLLGNLLGPAGPGAGGSGVASPTITVAMP,GPVAF,LGMTDFLQATQTAPPPPPPPPPPPPAPEQQTMPPPGSP
SGGAGSPGG,LGLESLSPEFFTSVVQGVLSLLGSLGARAGSSE,IAAFIQR,LSGSSNIFEPGADGALGFFGALLS
LLCQNF,SMVDVVM,LLHGHFQPLQRLQ,QLRSFFHQHYLGGQEPTPSNIRMATHTLITGLEEYVRESFSLVQVQPG
VDIIRTNLEFLQE,QFN,IAAHVLHCTDSGF,GARLLELCNQGLFECLALNLHCLGGQQMELAAVINGRIR,RRMSRGV
NPSLVSWLTTMMGLRLQV,LEHMPVGPDAILRYVRRVGDPPQPLPEEPMEVQGAERASPEPQRENAS,PA,PGTTAE
EAMSRGPPPAPEGGSRDEQDGASAETEPWAAAVPEWVPIIQQDIQSQRKVKPQPPLSDAYLSGMPAKRRKTMQG
EGPQ,LLLSEAVSRAAKAAGARPLTSPESLSRDLEAPEVQESYRQQLRSDIQKRLQEDPNYSPQRF,PN,QA,RAFADD
P

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FIGURE 1979A

CCCTAGGCCCGGGTCCCGGATCCCCGCGCACCCGGCCAGGCTCTGGCACGTTTTGGGGGAGGTGCCTGCAGGACC
CAACATACTCAATGAGCTTCCAGCGCAATGTCGGATCGCTCGGGGCCGACTGCCAAGGGAAAGGATGGAAAGAAG
TATTCTCGCTCAACCTGTTTGATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTGCCCTCGC
CATGGCTTCAGAGTCTCGGGAAAGTTGCCATTGCCCGCGTATGCCACCTCCAGCCAACCTTCCAAGCCTGAAA
GCCGAGAACAAAGGCAATGACCCCAATGTCTACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAAACAGGAG
CAGTCCGACCCCAAGAGTTCCGATGCCTCAACCGCTCAGCCGCCGGAATCGCAGCCACTGCCGGCTTCACAGACG
CCTGCCTCCAACCAGCCGAAACGACCCCCAGCAGCCCCGAGAACACTCCTTTGGTTCCAAGCGGGGTAAAGTCC
TGGGCACAAGCCAGCGTCACCCATGGAGCACATGGAGATGGTGAAGGGCATCAAGCCTACTGTCACGATTCTCT
CGAGAGGAATTTCCGACCTGCAGGCGGCTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGAGTCTGCCGAACAG
TCGTCTGGGCCCCGACCAAGCCTCCGCCCCAAAATTCTACAACCTGGAGGGACGGAGGTGGGCGTGGCCCTGAT
GAGCTGGAGGGCCCCGACTCCAAACTTCATCATGGTCATGATCCCCGGGGTGGGCTACAGCCTTCAGGCCACCC
CAGTTCCTTCCCTACCGCGGAATGATGCCGCTTTCATGTATCCCCCATATCTCCCGTTCCCTCCGCCCTATGGA
CCCCAGGGGCCTTACCGATACCCCACTCCTGATGGGCCCAGCGTTTTTCCCGTGTGGCGGGCCCCGAGGCTCA
GGGCCACCAATGCGCTTAGTAGAGCCTGTGGGTCTGCTCCTCTATTCTCAAAGAGGATAATCTCAAAGAGTTTGAT
CAGTTGGATCAGGAGAATGATGATGGTTGGGCAGGGGCCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTC
AGCGATGAGGAAGATGGGCGAGACTCTGATGAGGAGGGAGCTGAGGGCCACAGGGATTCCCAATCAGCTTCTGGT
GAGGAACGGCCCCCTGAAGCAGATGGCAAAAAGGGCAACTCCCCCAACAGCGAACCGCCCACTCCTAAGACGGCC
TGGGCAGAAAACCTCTCGGCCTCCAGAGACAGAGCCGGGACCTCCTGCCCCAAAGCCTCCCCCTACCCCTGGGGAC
TACCCAGATCGTGGGGGTCTCCTGCAAGCCCCCAGCACCTGAAGATGAGGATGAGGCATGGCGGCAGCGACGA
AAGCAGTCGTCACTGAGATTTCCCTGGCAGTGGAGCGGGCCCCGGCGAAGGCGGAGAGAGCGGCGCATG
CAAGAAGAGCGCCGGGCAGCCTGIGCTGAGAAGCTCAAGCGACTCGATGAAAAGTTTGGGGCACCTGACAAGCGG
CTCAAAGCAGAGCCTGCTGCCCCACCTGCTGCCCCCTTCTACCCAGCTCCACCACCTGCAGTCCCTAAAGAAGCTC
CCTGCACCTCCAGCTCCACCTCCAGCATCAGCCCCAACACCAGAGAAAGAACCTGAAGAGCCAGCACAGGCCCT
CCTGCCAATCTACTCCTACTCCAGGTGTGGCTGCGGCTCCCACTCTGGTGAGTGGTGGTGGCAGTACCAAGTAGC
ACCAGCAGTGGCAGCTTCGAAGCCAGCCCAGTGGAAACCACAAGTGCCTCAAAGAGGGTCTGAACCACCAGAA
GAGGTTCTCTCTTACCACACCCCCAGTTCAAAAGGTGGAACCCAAGGGTGATGGGATTGGTCCCACCCGCCAG
CCCCCTAGTCAGGGCTTGGGCTACCCCAAATATCAGAAGTCGTTGCCCTCCTCGTTTCCAGCGGCAGCAGAGGAG
CAGTCTCTGAAGCAGCAGCAGCAGCAGCAGCAGTGGCAGCAGCATCAACAGGGCTCTGCCCCCTCTACCCAGTGGCC
CCATCACCACCACAGCCTGTGACCTGGGGGCTGTGCCAGTCCACAGGCTCCACCCCCGCCCCCAAGGCCCTG
TACCCAGGTGCTCTGGGCCGGCCCCACCCATGCCCCCAATGAACTTTGATCCCCGATGGATGATGATTCTCTCT
TATGTGGACCCCCGGCTCTCCAGGGTCGTCCTCCTCTAGACTTCTACCTCCTGGTGTGCATCCCTCTGGCCTA
GTTCCCCGAGAGCGTTTCAGACAGTGGGGGCTCAAGCTCAGAGCCATTTGACCGTCATGCACCTGCTATGTTACGG
GAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCCTGGGTAGGAGATGTCTTACCGCCACACCCGCTGAACCC
CGCCCACTTACCTACCTCTGCGCCAGGCTGCGGATGAGGATGACAAGGGGATGAGGAGCGAGACTCCTCCAGTA
CCTCCCCCACCACCCTATCTGGCCAGTTATCCAGGCTTTCTGAGAATGGAGCCCCCTGGGCCCCCAATCTCTCGC
TTTCTCTGGAGGAACAGGGCCCCGTCCACTCCCCTGGCCCCCAGGCAGTGATGAAGTGGCCAAGATACAACT
CCACCACCAAGAAGGAGCCCCCTAAGGAGGAGACTGCACAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCC
CGCGGAGTCGGGAGTGGAGGCCAGGGCCCCCACCACCAGCAGAGAGATCGCACAGAGACCCGCTGGGGCCCT
CGTCCAGGGAGCAGTCGTCGTGGAATCCCTCCAGAGGAGCCAGGGGCCCAACCCGCGGGGCTGGGCCTATAAAG
AAACCTCCACCACCTACAAAAGTAGAAGAGCTGCCTCCCAAGCCCCCTCGAACAGGGGGATGAAACCCCCAAACCC
CCAAAGCCAGACCCACTCAAGATAACCAAGGGGAAGCTAGGGGGCCCCAAGGAGACCCCAACCAATGGAAATCTT
TCCCTGCCCCAAGGCTTCGGAGGGACTATTCTGATGAAAGAGTGGGTCTTACCTCTTGCCGGGGTGGGGCCGA
GGCGAGTATTTTGCCAGAGGGAGGGGTTTTCGGGGGACCTATGGGGGACGAGGGCGGGGAGCCCCGAAGCCGGGAA
TTCCGCAGTTACCGAGAGTTTCGAGGAGATGATGGGCGTGGAGGTGGGACAGGGGGACCAACACCCTCTGCT
CCCCGAGGCCGACTGCCAGCGAGACACGGAGCGAGGGTTCAGAGTATGAGGAAATCCCCAAGCGGCGCCGGCAG
CGGGGCTCAGAAACAGGCAGCGAGACCCATGAGAGTGATCTGGCTCCTTCAGACAAGGAGGCTCCACACCCAAAG
GAGGGAACACTCACCAGGTCCCTCTCGCTCCCCCACCACCAGGAGCCCCACCTTACCAGCCCCAGCCCGCTTC
ACTGCCCGGGGTGGGCGAGTCTTCACTCCAGAGGGGTGCCATCTCGCCGGGGCCGAGGAGGAGGGAGGCCCCCT

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FIGURE 1979B

CCTCAAGTTTGGCCAGGCTGGAGCCCTCCAGCCAAGTCTCTGGCTCCCAAGAAACCTCCCACAGGCCCTTTGCCA
CCAAGTAAGGAGCCTTTGAAAGAGAAGTTGATCCAGGGCCTCTGTCCCCTGTGGCGCGCGGAGGCAGCAATGGA
GGTAGCAATGTGGGCATGGAAGATGGGGAGCGACCCCGAAGGAGGCGACATGGGAGGGCTCAGCAGCAGGATAAA
CCGCTTCGTTTCCGGAGGCTGAAGCAGGAACGGGAGAATGCCGCAAGGGGGTCTGAGGGCAAGCCCTCCCTAACC
CTTCCAGCCTCCGCTCCTGCACCTGAGGAGGCCCTCACAACAGTCACAGTGGCCCCAGCACCTCGCCGGGCAGCT
GCCAAGTCTCCTGATCTGTCAAACCAGAACTCAGACCAAGCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGT
GACTTCACCAAGTGAAGCGCGAGGGGACAAGAGGCAACCCCAAGTACTGTGACACCCAAGGCTGTGGGAACT
CCTGGGGGAGGTGGAGGTGGAGCCGTACCAGGTATTTACAGCATGTCCCAGGAGATCTGAGCCAGAGAGCCAAG
GATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGCATGGAACGGCAGAATCGGCGCCCTGGCCAGGGGGC
AAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGGCGGTGGGGTCTGGAGGAAGGACCGGGCCAGGACGAGGC
GACAAGAGGAGCTGGCCCTCTCCCAAGAACCGAAGTCGTCTCCAGAGGAGCGTCCCCCGGGGCTTCCCCTGCCT
CCCCACCTCCCAGCAGTTCTGTGTCTTCCGCTGGACCAAGTTATCCACAGCAACCCTGCTGGCATCCAACAG
GCTCTGGCCCAGCTTAGTAGCCGTCAAGGGAGTGTAACTGCACAGGGGGTCAATCCAAGGCACAAGCCTGGGCCT
CCCCAAGCCCCCTCAGGGCCCCCTCTCCTAGGCCCCCAACCCGATACAGAGCCCCAGAGGGTCAACAGCGGCCTCAGT
TCTGACCCCCACTTTGAGGAGCCGGGGCCAATGGTGAGAGGGGTGGGTGGGACTCCTCGGGACTCTGCCGGGGTT
AGTCCCTTTCCCCCTAAACGTCGGGAGCGGCCTCCCAGAAAACAGAGCTGTACAGGAGGAATCTTTGCCACCT
CCTCATAGCTCTGGATTCTTGGGCTCTAAGCCTGAGGGCCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCACA
GAGGCCCTGACCCCTCACATCTGGAACCGTTTACATACTGCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATG
GAGCCTTGGATGGAGCCCTGAGTCCTTTTGGAGATGTGGCTGGCACAGAAATGAGTCAGTCTGACAGTGGGGTG
GACCTGAGTGGGGATTCTCAGGTGTCATCAGGTCCCTGCAGCCAGCGAAGTTCCTTGATGGAGGACTCAAGGGG
GCAGCAGAGGGACCCCCAAGAGGCCTGGAGGCTCCTCACCCCTGAATGCTGTTCCTTGTGAGGGTCCACCTGGC
TCTGAACCTCCTAGGAGACCACCTGCCCCCCACGATGGGGACAGAAAGGAGCTGCCCCGGGAGCAGCCTCTG
CCCCCTGGCCCCATTGGCACAGAACGATCACAGCATAACAGCCGAGGCACAGAGCCTGGCCCCATTGCGCCATCC
CATCGACCTGGTCCCCCAGTCCAGTTTGGCACTAGTGACAAGGACTCAGACTTACGCCTAGTGGTAGGAGACAGC
TTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAGGCCATTCTGTATCACGAGACTGGGAGCTGCTTCCC
AGTGCTGTCTGCTGTCTGAGCCACAATCCAAGAACCTGGATTCTGGGCACTGTGTCCCGGAGCCAGCTCCTCA
GGCCAGCGCCTGTATCTGAGGTTTTCTATGGCAGTGTGGCCCTTCCAGTTCTCAGATCTCTGGGGGAGCCATG
GACTCTCAATTACATCCAAACAGTGGAGGCTTCCGCCCTGGGACACCCCTCACTGCACCCCTTACAGATCACAGCCC
CTATACCTACCCCCGGCCAGCCCCCTCCCTCAGCACTGCTCTCTGGGGTAGCTCTCAAGGGCCAGTTTCTGGAT
TTCTCCACAATGCAAGCTACAGAGCTGGGGAAGTTGCCGGCTGGAGGAGTTCTTACCCTCCACCTTCTTCTCTC
TACTCTCCGGCTTTCTGCCCCAGTCTTTGCTGACACATCGTTGCTTACAGGTACGCCAGGATCTGCCATCCCCCT
TCGGATTTTATTCTACTCCTCTGCAGCCTGGTGGCCAAAGTGGCTTTCTCCCTTACAGGGGCTCCTGCCAGCAG
ATGCTTCTACCCATGGTAGACTCACAGCTGCCTGTGGTGAAGTTTGGCTCCCTGCCGCCAGCACCACCTCCTGCC
CCACCTCCCCCTTCTCTGTACCTGTGGGCCCTGCTCTGCAGCCCCCAGCCTGGCTGTGCGGCCCCACCTGCT
CCTGCTACTCGGGTGTGCCTTACCTGCCAGGCCCTTCCCCGCTAGCTTGGGGCGAGCAGAGCTGCATCCAGTG
GAACTAAAGCCGTTCCAGGATTATCAAAAAGTGAAGCAGCAACCTTGGGGGACCTGGATCATCACGGACTCCCCCA
ACTGGAAGGTCTTCTCTGGCCTCAATTCCTGCTCAAGGCCACGCCTTCCACCTACAGTGGAGTCTTCCGCACC
CAGCGCGTCGACCTTTACCAGCAGGCCTCCCCACCAGATGCCCTGCGCTGGATACCTAAGCCTTGGGAGCGGACA
GGGCTGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAGGAGCCTGGGTCCCGAGGGGACAAGGAGCCTGGGTTG
CCCCACCCCGCTGAGGGGAGTTCTCTTGGCCCCCTACCCCGGGGCTTGTATATAGATTATAAATATATAAGGGG
GAAAGGGGTGGGCGGGGAGGGGTTGTGGGGCTGGGGCCTCACTTCCCCTCCTCCCCCTTCCCCTGGTCCCCTGT
CCTGGGGCTGTTTGTAAAAAAGAGTAATAAAAGGATTT

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FIGURE 1980

MSDRSGPTAKGKDGGKYYSSNLFDITYKGKSLEIQKPAVAPRHLQSLGKVAIARRMPPANLPSLKAENKGNPDN
VSLVPKDGWASKQEQSDPKSSDASTAQPPESQPLPASQTPASNQPKRPPAAPENTPLVPSGVKSWAQASVTHG
AHGDGGRASSLLSRFSREEFPTLQAAGDQDKAAKERESAEQSSGPGPSLRPQNSTTWRDGGGRGPDELEGPD SKL
HHGHDPGRGLQPSGPPQFPPYRGMMPPFMYPPYLFPFPPYGPQGPYRYPTPDGFSRFPRVAGPRGSGPPMRLVEP
VGRPSILKEDNLKEFDQLDQENDDGWAGAHEEVDTYKELKF SDEEDGRDSDEEGAEGHRDSQSASGEERPPEADG
KKGNSPENSEPPTPKTAWAETSRRPETEPGPPAPKPLPPGDYDPRGGPPCKPPAPEDEDEAWRQRRKQSSSEISL
AVERARRRRREEEERRMQEERRAACAEKLRKLDKFGAPDKRLKAEPAAAPAPSTPAPPPAVPKELPAPPAPPPA
SAPTPEKEPEEPAQAPPAQSTPTPGVAAAPTLVSGGGSTSTSSGSFEASPVFQLPSKEGPEPPEEVPPPTTPP
VPKVEPKGDGIGPTRQPPSQGLGYPKYQKSLPPRFQRQQEQQLLKQQQHQWQQHQQGSAPPTVPPSPQPVTL
GAVPAPQAPPPPPKALYPGALGRPPMPMPNFDPRWMMIPYVDPRLQGRPLDFYPPGVHPSGLVPRERSDSG
GSSSEFPDRHAPAMLRERGTTPVDPKLAWVGDVFTATPAEPRPLTSPLRQAADDDKGMRSCTPPVPPPPPYLAS
YPGFENGAGPPISRFPLEEPGRPLPWPPGSDEVAKIQTPPPKKEPPKEETAQLTGPEAGRKFARGVSGGGQG
PPPPRRRESRTETRWGPRFGSSRRGIPPEEPGAPRRAGPIKKPPPTKVEELPKPLEQGDETPKPKPDPLKIT
KGKLGPGKETPPNGNLSPAPRLRRDYSYERVGPTSCRGRGRGEYFARGRGFRGTYGGRGRGARSRFRSREFRG
DDGRGGGTGGPNHPPAPRGRTASETRSEGSEYEEIPKRRRQRGSETGSETHESDLAPSDKEAPTPKEGTLTQVPL
APPPPGAPPSPAPARFTARGGRVFTPRGVPSRRGRGGGRPPQVCPGWSPPAKSLAPKKPPTGPLEPPSKEPLKEK
LIPGPLSPVARGGSNGGSNVGMEDGERPRRRRHGRAQQQDKPPRFRLKQERENAARGSEGKPSLTLPASAPAPE
EALTTVTVPAPARRAAKSPDLNSQNSDQANEWETASESSDFTSERRGDKEAPPPVLLTPKAVGTGGGGGGGAV
PGISAMSRGDLSQLAKDLKSRFSQRPQMERQNRPPGPGKAGSSSGSSSGGGGGGGPGGRTGPRGDKRSWPSPK
NRSRPPEERPPGLPLPPPPSSSAVFRLDQVIHNSPAGIQQALQLSSRQGSVTAPGGHPRHKPGFPQAPQGPSP
RPPTRYEPQVRNGLSSLPHFEEPGPMVRGVGGTTPRDSAGVSPFPKRRERPPRKPELLQEESLPPPHSSGFLGS
KPEGPGQAESRDGTGREALTPHIWNLHTATSRSYRPSSEMPWMEPLSPFEDVAGTEMSQSDSGVDLSGDSQVS
SGPCSQRSSPDGGLKGAAGPPKRPGGSSPLNAVPCGPPGSEPPRRPPAPHDGDRKELPREQPLPPGPIGTER
SQHTDRGTEPGPIRPSHRPGPPVQFGTSDKSDLRVLVGDLSLKAKELTASVTEAIPVSRDWELLPSAAASAEPQ
SKNLDSGHCVPEPSSSGQRLYPEVFYGSAGPSSSQISGGAMDSQLHPNSGGFRPGTSPSLHPYRSQPLYLPPGPAP
PSALLSGVALKGQFLDFSTMQATELGKLPAGGVLYPPPSFLYSPAFCPSPLPDTSLQVRQDLPSPSDFYSTPLQ
PGGQSGFLPSGAPAQMLLPMVDSQLPVNFGSLPPAPPAPPPPLSLLPVGPALQPPSLAVRPPAPATRVLPSP
ARPPFASLGRAELHPVELKPFQDYQKLSSNLGGPGSSRTPTTGRSFSGLNSRLKATPSTYSGVFRTOQVLDLYQQA
SPPDALRWIPKPWERTGLPPREGPSRRAEPPGSRGDKEPGLPPPR

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FIGURE 1981A

CCCTAGGCCCGGGTCCCGGATCCCCGCGCACCCGGCCAGGCTCTGGCACGTTTTGGGGGAGGTGCCTGCAGGACC
CAACATACTCAATGAGCTTCCAGCGCAATGTCGGATCGCTCGGGGCCGACTGCCAAGGGAAAGGATGGAAAGAAG
TATTCCTCGCTCAACCTGTTTGATACGTATAAGGGCAAGTCCTTAGAGATCCAGAAACCCGCTGTGCCCCCTCGC
CATGGCCTGCAGAGTCTCGGGAAAGTTGCCATTGCCCGCGTATGCCACCTCCAGCCAACCTTCCAAGCCTGAAA
GCCGAGAACAAAGGCAATGACCCCAATGTCTCACTAGTGCCAAAAGACGGAACAGGATGGGCAAGCAAACAGGAG
CAGTCCGACCCCAAGAGTTCGGATGCCTCAACCGCTCAGCCGCGGAATCGCAGCCACTGCCGGCTTCACAGACG
CCTGCCTCCAACCAGCCGAAACGACCCCCAGCAGCCCCGAGAACACTCCTTTGGTTCCAAGCGGGGTAAAGTCC
TGGGCACAAGCCAGCGTCACCCATGGAGCATATGGAGATGGTGGGAAGGGCATCAAGCCTACTGTCACGATTCTCT
CGAGAGGAATTTCCGACCCTGCAGGCGGCTGGCGACCAGGACAAGGCTGCCAAGGAAAGGGAGTCTGCCGAACAG
TCGTCTGGGCCCCGACCAAGCCTCCGCCCCCAAATTCTACAACCTGGAGGGACGGAGGTGGGCGTGGCCCTGAT
GAGCTGGAGGGCCCCGACTCCAAACTTCATCATGGTCATGATCCCCGGGGTGGGCTACAGCCTCAGGCCCCACCC
CAGTTCCTTCCCTACCGCGGAATGATGCCGCTTTTCATGTATCCCCCATATCTCCCGTTCCCTCCGCCCTATGGA
CCCCAGGGGCCTTACCATAACCCACTCCTGATGGGCCCAGCGTTTTTCCCGTGTGGCGGGCCCCCGAGGCTCA
GGGCCACCAATGCGCTTAGTAGAGCCTGTGGGTGCTCCCTCTATTCTCAAAGAGGATAATCTCAAAGAGTTTGAT
CAGTTGGATCAGGAGAAATGATGATGGTTGGGCAGGGGCCATGAAGAGGTTGACTACACTGAAAAGCTCAAGTTC
AGCGATGAGGAAGATGGGCGAGACTCTGATGAGGAGGGAGCTGAGGGCCACAGGGATTCCCAATCAGCTTCTGGT
GAGGAACGGCCCCCTGAAGCAGATGGCAAAAAGGGCAACTCCCCCAACAGCGAACC GCCCCTCCTAAGACGGCC
TGGGCAGAAACCTCTCGGCCTCCAGAGACAGAGCCGGGACCTCCTGCCCCAAAGCCTCCCTACCCCCACCTCAC
CGGGGCCCCCGCGGGAAGTGGGGCCCCCTGGGGACTACCCAGATCGTGGGGGTCTCCTGCAAGCCCCCAGCA
CCTGAAGATGAGGATGAGGCATGGCGGCAGCGACGAAAGCAGTCGTATCTGAGATTTCCCTGGCAGTGGAGCGG
GCCCCGCGACGGCGAGAAGAAGAGGAGCGCGCATGCAAGAAGAGCGCCGGGCAGCCTGTGCTGAGAAGCTCAAG
CGACTCGATGAAAAGTTTGGGGCACCTGACAAGCGGCTCAAAGCAGAGCCTGTGCCCCACCTGCTGCCCTTCT
ACCCAGCTCCACCCTGCAGTCCCTAAAGAACTCCCTGCACCTCCAGCTCCACCTCCAGCATCAGCCCCAACCA
CCAGAGAAAGAACCTGAAGAGCCAGCACAGGCCCCCTCCTGCCCAATCTACTCTACTCCAGGTGTGGCTGCGGCT
CCCCTCTGGTGAGTGGTGGTGGCAGTACCAGTAGCACCAGCAGTGGCAGCTTCGAAGCCAGCCCAGTGGAAACCA
CAACTGCCCTCAAAGAGGGTCTGAACCAACCAGAAGAGGTTCTCCTCCTACCCACACCCCCAGTTCCAAAGGTG
GAACCAAGGGTGATGGGATTGGTCCCACCCGCCAGCCCCCTAGTCAGGGCTTGGGCTACCCCAAATATCAGAAG
TCGTTGCCCTCCTCGTTTCCAGCGGCAGCAGCAGGAGCAGCTCCTGAAGCAGCAGCAGCAGCACCAGTGGCAGCAG
CATCAACAGGGCTCTGCCCCCTCTACCCAGTGCCCCCATCACCACCACAGCCTGTGACCTGGGGGCTGTGCCA
GCTCCACAGGCTCCACCCCCGCCCCCAAGGCCCTGTACCCAGGTGCTCTGGGCCGGCCCCCACCATGCCCCCA
ATGAACTTTGATCCCGATGGATGATGATTCTCCTTATGTGGACCCCGGCTCCTCCAGGGTCTGTCCTTCTA
GACTTCTACCTCCTGGTGTGCATCCCTCTGGCCTAGTTCCCCGAGAGCGTTGACACAGTGGGGGCTCAAGCTCA
GAGCCATTTGACCGTCATGCACCTGCTATGTTACGGGAACGGGGCACTCCACCGGTGGATCCAAAGTTGGCCTGG
GTAGGAGATGTCTTACCGCCACACCCGCTGAACCCGCCCCACTTACCTCACCTCTGCGCCAGGCTGCGGATGAG
GATGACAAGGGGATGAGGAGCGAGACTCCTCCAGTACCTCCCCACCACCTATCTGGCCAGTTATCCAGGCTTT
CCTGAGAATGGAGCCCCCTGGGCCCCCAATCTCTCGCTTTCTCTGGAGGAACCAGGGCCCCGTCCACTCCCCTGG
CCCCAGGCAGTGATGAAGTGGCCAAGATACAAACTCCACCACCCAAGAAGGAGCCCCCTAAGGAGGAGACTGCA
CAGCTGACGGGGCCAGAAGCAGGCCGAAAGCCTGCCCGCGGAGTCGGGAGTGGAGGCCAGGGCCCCCACCACCA
CGCAGAGAGATCGCACAGAGACCCGCTGGGGCCCTCGTCCAGGGAGCAGTCGTCTGTGAATCCCTCCAGAGGAG
CCAGGGGCCCCACCCCGCGGGCTGGGCCTATAAAGAACTCCACCACCTACAAAAGTAGAAGAGCTGCCTCCC
AAGCCCCCTCGAACAGGGGGATGAAACCCCCAAACCCCCAAGCCAGACCCACTCAAGATAACCAAGGGGAAGCTA
GGGGGCCCCAAGGAGACCCACCCAATGGAAATCTTTCCCTGCCCAAGGCTTCGGAGGGACTATTCTGTATGAA
AGAGTGGGTCTTACCTCTTGCCGGGGTGGGGCCGAGGCGAGTATTTTGGCAGAGGGAGGGGTTTTCGGGGGACC
TATGGGGGACGAGGGCGGGGAGCCCCGAAGCCGGGAATTCGCGAGTTACCGAGAGTTTCGAGGAGATGATGGCGGT
GGAGGTGGGACAGGGGGACCAACCACCTCCTGCTCCCGAGGCGCACTGCCAGCGAGACACGGAGCGAGGGT
TCAGAGTATGAGGAAATCCCCAAGCGGCGCCGCGCAGCGGGCTCAGAAACAGGCAGCGAGACCCATGAGAGTGAT
CTGGCTCCTTCAGACAAGGAGGCTCCACACCCAAGGAGGGAACACTCACCAGGTCCCTCTCGCTCCCCACCA
CCAGGAGCCCCACCTTACCAGCCCCAGCCCGCTTACTGCCCGGGTGGGCGAGTCTTACTCCAGAGGGGTG

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FIGURE 1981B

CCATCTCGCCGGGGCCGAGGAGGAGGGAGGCCCCCTCCTCAAGTTTGCCAGGCTGGAGCCCTCCAGCCAAGTCT
CTGGCTCCCAAGAAACCTCCACAGGCCCTTTGCCACCAAGTAAGGAGCCTTTGAAAGAGAAGTTGATCCCAGGG
CCTCTGTCCCTGTGGCGCGCGGAGGCAGCAATGGAGGTAGCAATGTGGGCATGGAAGATGGGGAGCGACCCCGA
AGGAGGCGCATGGGAGGGCTCAGCAGCAGGATAAACC GCCTCGTTTCCGGAGGCTGAAGCAGGAACGGGAGAAT
GCCGCAAGGGGGTCTGAGGGCAAGCCCTCCCTAACCCTTCAGCCTCCGCTCCTGCACCTGAGGAGGCCCTCACA
ACAGTCACAGTGGCCCCAGCACCTCGCCGGGCAGCTGCCAAGTCTCCTGATCTGTCAAACCAGAACTCAGACCAA
GCCAATGAGGAATGGGAGACTGCATCAGAGAGCAGTGACTTCACCAGTGAGCGCCGAGGGGACAAAGAGGCACCC
CCACCAGTACTGCTGACACCCAAGGCTGTGGGAACCTCCTGGGGGAGGTGGAGGTGGAGCCGTACCAGGTATTTC
GCCATGTCCCGCGGAGATCTGAGCCAGAGAGCCAAGGATTTGAGTAAACGGAGCTTCTCAAGTCAGCGGCCAGGC
ATGGAACGGCAGAAATCGGCGCCCTGGCCAGGGGGCAAGGCTGGCAGCAGTGGCAGCAGCAGTGGAGGAGGCGGT
GGGGGTCTCTGGAGGAAGGACCGGGCCAGGACGAGGCGACAAGAGGAGCTGGCCCTCTCCCAAGAACCAGTCTGT
CCTCCAGAGGAGCGTCCCCCGGGGCTTCCCTGCTCCTCCCCACCTCCAGCAGTTCCTGTCTCTCCGCTGGAC
CAAGTTATCCACAGCAACCCTGCTGGCATCCAACAGGCTCTGGCCAGCTTAGTAGCCGTCAAGGGAGTGTAACT
GCACCAGGGGTCATCCAAGGCACAAGCCTGGGCCTCCCCAAGCCCCCTCAGGGCCCCCTCTCCTAGGCCCCCAACC
CGATACGAGCCCCAGAGGGTCAACAGCGGCCTCAGTCTTGACCCCCACTTTGAGGAGCCGGGGCCAATGGTGAGA
GGGTGGGTGGGACTCCTCGGGACTCTGCCGGGGTTAGTCCCTTTCCCCCTAAACGTCGGGAGCGGCCTCCGAGA
AAACCAGAGCTGTACAGGAGGAATCTTGCCACCTCCTCATAGCTCTGGATTCTTGGGCTCTAAGCCTGAGGGC
CCAGGCCCTCAGGCAGAGTCCAGAGATACAGGCACAGAGGCCCTGACCCCTCACATCTGGAACCGTTTACATACT
GCCACTAGCCGAAAGAGTTACCGGCCAGCTCCATGGAGCCTTGGATGGAGCCCCTGAGTCTTTTGAGGATGTG
GCTGGCACAGAAATGAGTCAGTCTGACAGTGGGGTGGACCTGAGTGGGGATTCTCAGGTGTATCAGGTCCCTGC
AGCCAGCGAAGTTCCCTGATGGAGGACTCAAGGGGCGAGCAGAGGGACCCCCAAGAGGCCTGGAGGCTCCTCA
CCCCTGAATGCTGTTTCTTGTGAGGGTCCACCTGGCTCTGAACCTCCTAGGAGACCACCCTGCCCCCAGGAT
GGGGACAGAAAGGAGCTGCCCCGGGAGCAGCCTCTGCCCCCTGGCCCCATTGGCACAGAACGATCACAGCATACA
GACCGAGGCACAGAGCCTGGCCCCATTGCGCCATCCCATCGACCTGGTCCCCCAGTCCAGTTTGGCACTAGTGAC
AAGGACTCAGACTTACGCCTAGTGGTAGGAGACAGCTTGAAAGCAGAGAAGGAGCTAACAGCATCAGTCACTGAG
GCCATTCTGTATCACGAGACTGGGAGCTGCTTCCAGTGCTGCTGCCCTCTGCTGAGCCACAATCCAAGAACCCTG
GATTCTGGGCACGTGTGCTCCGGAGCCAGCTCCTCAGGCCAGCGCCTGTATCCTGAGGTTTTCTATGGCAGTGCT
GGGCCTTCCAGTTCTCAGATCTCTGGGGGAGCCATGGACTCTCAATTACATCCAAACAGTGGAGGCTTCCGCCCT
GGGACACCCTCACTGCACCCTTACAGATCACAGCCCTATACCTACCCCCGGGCCAGCCCTCCCTCAGCACTG
CTCTCTGGGGTAGCTCTCAAGGGCCAGTTTCTGGATTTCTCCACAATGCAAGCTACAGAGCTGGGGAAGTTGCCG
GCTGGAGGAGTTCTTACCTCCACCTTCCTTCTCTACTCTCCGGCTTCTGCCCCAGTCTTTGCCTGACACA
TCGTTGCTTCAGGTACGCCAGGATCTGCCATCCCTTCGGATTTTATTCTACTCTCTGCAGCCTGGTGGCCAA
AGTGGCTTTCTCCCTTCAGGGGCTCCTGCCCAGCAGATGCTTCTACCCATGGTAGACTCACAGCTGCCTGTGGTG
AACTTTGGCTCCCTGCGGCCAGCACCTCCTGCCCCACCTCCCTTTCTCTGTTACCTGTGGGCCCTGTCTGTG
CAGCCCCCAGCCTGGCTGTGCGGGCCCCACCTGCTCCTGCTACTCGGGTGCTGCCTTCACCTGCCAGGCCCTTC
CCCGCTAGCTTGGGGCGAGCAGAGCTGCATCCAGTGGAACTAAAGCCGTTCCAGGATTATCAAAAACCTGAGCAGC
AACCTTGGGGGACCTGGATCATCACGGACTCCCCCAACTGGAAGGTCCTTCTCTGGCCTCAATTCCCGTCTCAAG
GCCACGCCTTCCACCTACAGTGGAGTCTTCCGCACCCAGCGCGTCGACCTTTACCAGCAGGCCTCCCCACCAGAT
GCCCTGCGCTGGATACCTAAGCCTTGGGAGCGGACAGGGCTGCCACCTCGAGAAGGGCCCTCCCGACGGGCAGAG
GAGCCTGGGTCCCGAGGGGACAAGGAGCCTGGGTGCCCCACCCCGCTGAGGGAGTTCTCTTGCCCCCTACCC
CCGGGGCTTGTATATAGATTATAAATATATAAGGGGGAAAGGGGTGGGCGGGGAGGGGTTGTGGGGCTGGGGCCT
CACTTCCCTCTCCCCCTTCCCTGGTCCCCTGTCCCTGGGGCTGTTTGTTAAAAAAGAGTAATAAAAGGATTT

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FIGURE 1982

MSDRSGPTAKGKDGGKYSSLNLFDTYKGKSLEIQKPAVAPRHGLQSLGKVAIARRMPPPANLPSLKAENKGNDFN
VSLVPKDGTDGWASKQEQSDPKSSDASTAQPPESQPLPASQTPASNQPKRPPAAPENTPLVPSGVKSWAQASVTHG
AHGDGGRASSLLSRFSREFFPTLQAAGDQDKAAKERESAEQSSGPGPSLRPQNSTTWRDGGGRGPDELEGPD SKL
HHGHDPGGGLQPSGFPQFPYRGMMFFMYPPYLFPFPYGPQGPYRYPTPDGPSRFPVRVAGPRGSGPPMRLVEP
VGRPSILKEDNLKEFDQLDQENDDGWAGAHEEVDYTEKLKFSDEEDGRDSDEEGAEGHRDSQSASGEERPPEADG
KKGNSPNSSEPPTPKTAWAETSRPPETEPGPPAPKPPPLPPHRRGPAGNWGPPGDYDPRGGPPCKPPAPEDEDEAWR
QRRKQSSSEISLAVERRRRREERERMQEERRAACAEKLRLEKFGAPDKRLKAEPAPPAAPSTPAPPPAVP
KELPAPPAPPPASAPTPEKEPEEPAQAPPAQSTPTPGVAAAPT LVSGGGSTSTSSGSFEASVPEPQLPSKEGPE
PPEEVPPPTTPPVKVEPKGDGIGPTRQPPSQGLGYPKYQKSLPPRFQRQQEQQLLKQQQHQWQQHQQGSAPPT
PVPPSPQPVTLGAVAPQAPPPPKALYPGALGRPPMPMNFDP RWMIPYVDPRLQGRPPLDIFYPGVHP
SGLVPRERSDSGSSSEFFDRHAPAMLRERGTTPVDPKLAWVGDVFTATPAEPRPLTSPLRQAADDDKGM RSET
PPVPPPPPYLASYPGFENGAPGPPISRFPLEEGPRPLPWPPGSDEVAKIQTPPKKEPPKEETAQLTGPEAGR
KPARGVGSGGQGPFPFRRESRTETRWGPRPGSSRRGIPPEEPGAPPRRAGPIKKPPPTTKVEELPPKPLEQGET
PKPPKPDPLKITKGKLGPKETPPNGNLSAPRLRRDYSYERVGPTSCRGRGRGEYFARGRGFRGTYGGRRGAR
SREFRSYREFRGDDGRGGGTGGPNHPPAPRGRTASETRSEGSEYEEIPKRRRQRGSETGSETHESDLAPSDKEAP
TPKEGTLTQVPLAPPPPGAPPSPAPARFTARGGRVFTPRGVPSRRGRGGGRPPPVQCPGWSPPAKSLAPKKPPTG
PLPPSKEPLKEKLIPGLSPVARGGSNGGSNVGMEDGERPRRRRHGRAQQQDKPFRFRRLKQERENAAARGSEGKP
SLTLPASAPAPEEALTTVTVAPAPRRAAKSPDLNQNDSQANEWE TASESSDFTSERRGDKAEPVLLTPKA
VGTPGGGGGAVPGISAMSRGDLQRAKDLKRSFSSQRP GMERQNRPGPGGKAGSSSGSSGGGGGGPGGRTGP
GRGDKRSWSPKNSRPPPEERPPGLPLPPPPSSSAVFRLDQVIHSNPAGIQQALQLSSRQGSVTAPGGHPRHK
PGPPQAPQGPSRPPTTRYEPQRVNSGLSSDPHFEEPGPMVRGVGGTTPRDSAGVSPFPKRRERPPRKPPELLQEES
LPPPHSSGFLGSKPEGPGQAESRDTGTEALTPHIWNRLHTATSRKSYRPSMEPWMEPLSPFEDVAGTEMSQSD
SGVDLSGDSQVSSGPCSQRSSPDGGLKGAAGPPKRP GGSPLNAVPCGPPGSEPPRRPPAPHDGDRKELPRE
QPLPPGPIGTERSQHTDRGTEPGPIRPSHRPGPPVQFGTSDKSDLRLLVVGDSLKAEKELTASVTEAIPVSRDWE
LLPSAAASAEPQSKNLD SGHCVPPEPSSSGQRLYPEVFGSAGPSSSQISGGAMDSQLHPNSGGFRPGTPSLHPYR
SQPLYLPPGPAPPSALLSGVALKGQFLDFSTMQATELGKLPAGGVLYPPPSFLYSPAFCPSPLPDTSLLQVRQDL
PSPSDFYSTPLQPGGQSGFLPSGAPAAQMLLPMVDSQLPVVNF GSLPPAPPPAPPLSLLPVGPALQPPSLAVRP
PPAPATRVLPSPARFPASLGRAELHPVELKPFQDYQKLSSNLGGPGSSRTPTGRSFSGLNSRLKATPSTYSGV
FRTQVRDLYQQASPPDALRWIPKPWERTGLPPREGPSRRAE EPGSRGDKEPGLPPPR

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FIGURE 1983

CCGAGCTTCTTAAACACAGGCCTTGGGCCTACGGCTCTGGGGGTACTTGGGGGGCGGGGGCAGGTCTGATGAGT
AACCCTCCCCCAGGTTCCAGAGGAAGAAGCCTCCACATCTGTCTGCCGGCCCAAGAGTTCCATGGCCTCCACT
TCCCGCCGCCAACGCCGAGAACGTCGCTTTTCGTCGTTACTTGTCTGCAGGACGGCTGGTCCGGGCCCAGGCCCTC
CTCCAGCGACACCCAGGCCTCGATGTAGATGCTGGGCAGCCCCACCACTGCACCGGGCCTGTGCCCGCCACGAT
GCCCCGTGCCCTGTGCCTGTCTGCTTCGGCTCGGGGTGACCCTGCCCACCAGGACCGCCATGGGGACACGGCACTG
CATGCTGCTGCCCGCCAGGGCCCAGATGCCTACACCGATTTCTTCCCTCCCGCTGCTAAGCCGCTGTCCCTCCGCC
ATGGGAATAAAGAATAAGGATGGGGAGACCCCTGGCCAAATTTTGGGCTGGGGACCCCCCTGGGATTCTGCTGAA
GAGGAGGAAGAAGATGATGCCTCCAAGGAGCGGGAATGGAGACAGAAGCTCCAGGGTGAGCTGGAGGACGAGTGG
CAGGAAGTCATGGGGAGGTTTGAAGGTGATGCCTCCCATGAAACCCAGGAACCTGAGTCCTTCTCAGCCTGGTCA
GATCGCTTGGCCCGGAACATGCCCAGAAGTGCCAGCAGCAGCAGCGAGAAGCAGAGGGATCCTGTGACCCCCA
CGTGCTGAGGGCTCCAGCCAGAGCTGGCGACAGCAGGAGGAGGAGCAGCGCTCTTCAGGGAGCGAGCCCGGGCC
AAGGAGGAAGAGCTGCGTGAGAGCCGAGCCAGGAGGGCGCAGGAGGCTCTAGGGGACCGAGAACCCAAGCCAACC
AGGGCCGGGCCCAGGGAAGAGCACCCAGAGGAGCGGGAGGGGCAGCCTCTGGCGATTGGTGATGTGCCCTGG
CCCTGCCCTGGGGGAGGGGACCCAGAGGCCATGGCTGCAGCCCTGGTGGCCAGGGGCCCCCTTTGGAGGAACAG
GGGGCTCTGAGGAGGTACTTGAGGGTCCAGCAGGTCCGCTGGCACCCCTGACCGCTTCCTGCAGCGATTCCGAAGC
CAGATTGAGACCTGGGAGCTGGGCCGTGTGATGGGAGCAGTGACAGCCCTTCTCAGGCCCTGAATCGCCATGCA
GAGGCCCTCAAGTGACCCTAGGGAAGAAGCAAGAACTTCGGGGCTGCAGCCTCAGGATGAGGCAGAAGGAAGGG
TAAGGGAAGGATGGGGACCACAAGGAAGAGCCAGGTGCTGCTCAGCAGAGGATATGGGTGGGAGCGAAAGTTGT
AACAAGTGGGGGTGGGGGTGCGGGCCGCCACCACTGCTCCTTGACTCTGCCGTTTCCTAATAAGACCTGGTTCC
ACATCTC

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FIGURE 1984

ACAGGCATTTTCCAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTTCCGGTCCCTTG
CGCCTGCGCTCTTGCAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT
TCCCTCCTTCGTCGCTGTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGTTATGGCAGAGAACGATGTGGACAAT
GAGCTCTTGGACTATGAAGATGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCCTGCCAAGAAG
GATGTCAAGGGCTCCTATGTCTCCATCCACAGCTCTGGCTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGG
GCCATTGTGCGACTGTGGCTTTGAGCATCCGTGAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATG
GATGTCTGTGCCAGGCCAAGTCGGGCATGGGAAAGACAGCAGTGTGTTGCTTGGCCACACTGCAACAGCTGGAG
CCAGTTACTGGGCAGGTGTCTGTGCTGGTGATGTGTCACTCGGGAGTTGGCTTTTCAGATCAGCAAGGAATAT
GAGCGCTTCTCTAAATACATGCCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAA
GAGGTGCTGAAGAAGAACTGCCCCGATATCGTCGTGGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAG
AGCCTCAACCTCAAACACATTAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGT
CGGGATGTCCAGGAAATTTTTCGCATGACCCCCACGAGAAGCAGGTCATGATGTTCAGTGCTACCTTGAGCAAA
GAGATCCGTCCAGTCTGCCGCAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACG
CTGCATGGGTTGCAGCAGTACTACGTGAACTGAAGGACAACGAGAAGAACCGGAAGCTCTTTGACCTTCTGGAT
GTCCTTGAGTTCAACCAGTGGTGATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCCAGCTACTAGTG
GAGCAGAACTTCCCAGCCATTGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTCTCGGTATCAGCAGTTT
AAAGATTTTCAACGACGAATTCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATT
GCTTTTAATTATGACATGCCTGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACC
AAGGGCTTGGCTATCACATTTGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAG
GTCAATATTAGTGAGCTGCCTGATGAGATAGACATCTCCTCCTACATTGAACAGACACGGTAGAAGACTCGCCCA
TTTTGGAATGTGACCGTCTGTCTTCAGGAGAGGACACCAGGGTGGGGGTGAAGGAGACACTACTGCCCCACCC
CTGACAGCCCCACCCCATGGCTTCCATCTTTTGATCACCACCACTCCTGAACCCCCATTTCTGATTGTGAGA
ATTTTTTTTTTAACAAAATAAAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1985

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSIHSSGFRDFLKPELLRAIVDCGFEHPSEVQHEC
IPQAILGMDVLCQAKSGMGKTAVFVLATLQQLEPVTGQVSVLVMCHTRELAFQISKEYERFSKYPNVKVAFFG
GLSIKKDEEVLKKNCPHIVVGTPGRILALARNKSLNLKHIKHFILDECCKMLEQLDMRRDVQEIFRMPHEKQVM
MFSATLSKEIRPVCRKFMQDPMEIFVDDETKLTLHGLQQYYVKLKDNEKNRKLFDLLDVLEFNQVVFVKSQRC
IALAQLLVEQNFPATIAIHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNIAFNYPEDSDTYLHRV
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNISELPDEIDISSYIEQTR

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FIGURE 1986

ACAGGCATTTTCCAAAGGCAAGCCTGGAGCGCACGGATCTGTATAACCGCGGAAGGCCCTGTTTCCGGTCCCTTG
CGCCTGCGCTCTTGCAGCCAAGAAGGCGGGAGGCTGGAGTAGAGGGAAGCCTGCAACCGGAAGTGAAGGCAGATT
TCCCTCCTTCGTCGCTGTTGCTGCCGCCATACGCGCTCTCCCTGTTTAGCTCTTCTGTTAGAAATAGTATCTTTG
TTTTCCTTTGCTGTTCCCTCAATCCCCCTACTCTTCACCCCTTGTTTTACCTATTTTGCGAGAACCCTCCAGATC
CCCCTTCCCTTCTTCCCTGCCGCCCCAGTTATGGCAGAGAACGATGTGGACAATGAGCTCTTGGACTATGAAGA
TGATGAGGTGGAGACAGCAGCTGGGGGAGATGGGGCTGAGGCCCTGCCAAGAAGGATGTCAAGGGCTCCTATGT
CTCCATCCACAGCTCTGGCTTTTCGTGACTTCCTGCTCAAGCCAGAGTTGCTCCGGGCCATTGTCGACTGTGGCTT
TGAGCATCCGTCAGAAGTCCAGCATGAGTGCATCCCTCAGGCCATTCTGGGAATGGATGTCTGTGCCAGGCCAA
GTCGGGCATGGGAAAGACAGCAGTGTGTTGCTTGGCCACACTGCAACAGCTGGAGCCAGTTACTGGGCAGGTGTC
TGTGCTGGTGATGTGTCACTCGGGAGTTGGCTTTTCAGATCAGCAAGGAATATGAGCGCTTCTCTAAATACAT
CCCCAATGTCAAGGTTGCTGTTTTTTTTTGGTGGTCTGTCTATCAAGAAGGATGAAGAGGTGCTGAAGAAGAACTG
CCCGCATATCGTCGTGGGGACTCCAGGCCGTATCCTAGCCCTGGCTCGAAATAAGAGCCTCAACCTCAAACACAT
TAAACACTTTATTTTGGATGAATGTGATAAGATGCTTGAACAGCTCGACATGCGTCGGGATGTCCAGGAAATTTT
TCGCATGACCCCCACGAGAAGCAGGTCATGATGTTTCACTGCTACCTTGAGCAAAGAGATCCGTCAGTCTGCCG
CAAGTTCATGCAAGATCCAATGGAGATCTTCGTGGATGATGAGACGAAGTTGACGCTGCATGGGTTGCAGCAGTA
CTACGTGAAACTGAAGGACAACGAGAAGAACCAGGAGCTCTTTGACCTTCTGGATGTCTTGAGTTCAACCAGGT
GGTGATCTTTGTGAAGTCTGTGCAGCGGTGCATTGCCTTGGCCAGCTACTAGTGGAGCAGAACTTCCCAGCCAT
TGCCATCCACCGTGGGATGCCCCAGGAGGAGAGGCTTTCTCGGTATCAGCAGTTTAAAGATTTTCAACGACGAAT
TCTTGTGGCTACCAACCTATTTGGCCGAGGCATGGACATCGAGCGGGTGAACATTGCTTTTAATTATGACATGCC
TGAGGATTCTGACACCTACCTGCATCGGGTGGCCAGAGCAGGCCGGTTTGGCACCAAGGGCTTGGCTATCACATT
TGTGTCCGATGAGAATGATGCCAAGATCCTCAATGATGTGCAGGATCGCTTTGAGGTCAATATTAGTGAGCTGCC
TGATGAGATAGACATCTCCTCCTACATTGAACAGACACGGTAGAAGACTCGCCCATTTTGAATGTGACCGTCTG
TCCTTCAGGAGAGGACACCAGGGTGGGGGTGAAGGAGACACTACTGCCCCACCCCTGACAGCCCCACCCATG
GCTTCCATCTTTTGATCACCACCACTCCTGAACCCCATTTCTGATTTGTGAGAATTTTTTTTTTAACAAAATA
AAATGAAACACATGTGTCTGTGGTATCTAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 1987

MAENDVDNELLDYEDDEVETAAGGDGAEAPAKKDVKGSYVSIHSSGFRD¹FLKPELLRAIVDCGFEHPSEVQHEC
IPQAILGMDVLCQAKSGMGKTAVFVLATLQQL²EPVTGQVSVLVMCHTRELAFQISKEYERFSKYMPNVKVAVFFG
GLSIKKDEEVLKKNC³PHIVVGTPGRILALARNKSLNLKHIKHFILDECDKMLEQLDMRRDVQE⁴IFRMT⁵PH⁶E⁷KQVM
MFSATLSKEIRPVC⁸RKFMQDPMEIFVDD⁹ETKLT¹⁰LHGLQYYVKLDNEKNRKLFDLLDVLEFNQVVIFVKS¹¹VQRC
IALAQLLVEQNFP¹²AI¹³A¹⁴IHRGMPQEERLSRYQQFKDFQRRILVATNLFGRGMDIERVNI¹⁵AFNYDMPEDSDTYLHRV
ARAGRFGTKGLAITFVSDENDAKILNDVQDRFEVNI¹⁶SELPDEIDISSYIEQTR

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FIGURE 1988

AGACGCCGAGATGCTGGTCATGGCGCCCCGAACCGTCCTCCTGCTGCTCTCGCGGGCCCTGGCCCTGACCGAGAC
CTGGGCCGGCTCCCACTCCATGAGGTATTTGACACCGCCATGTCCCGGCCCGGCCGCGGGGAGCCCCGCTTCAT
CTCAGTGGGCTACGTGGACGACACGCAGTTCGTGAGGTTGACAGCGACGCCGCGAGTCCGAGAGAGGAGCCGCG
GGCGCCGTGGATAGAGCAGGAGGGGGCCGGAGTATTGGGACCGGAACACACAGATCTTCAAGACCAACACACAGAC
TGACCGAGAGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGCCGGGTCTCACACCCTCCAGAGCAT
GTACGGCTGCGACGTGGGGCCGGACGGGCGCCTCCTCCCGGGGCATAACCAGTACGCCTACGACGGCAAGGATTA
CATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCGCGGACACCGCGGCTCAGATCACCGAGCGCAAGTGGGA
GGCGGCCCGTGTGGCGGAGCAGGACAGAGCCTACCTGGAGGGGCACGTGCGTGGAGTGGCTCCGCAGATACCTGGA
GAACGGGAAGGACACGCTGGAGCGCGCGGACCCCCCAAAGACACACGTGACCCACCACCCCATCTCTGACCATGA
GGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGCGAGGA
CCAACTCAGGACACTGAGCTTGTGGAGACCAGACCAGCAGGAGATAGAACCCTTCCAGAAGTGGGCAGCTGTGGT
GGTGCTTCTGGAGAAGAGCAGAGATACACATGCCATGTACAGCATGAGGGGCTGCCGAAGCCCCCTCACCCCTGAG
ATGGGAGCCGTCTTCCAGTCCACCGTCCCCATCGTGGGCATTGTTGCTGGCCTGGCTGTCCTAGCAGTTGTGGT
CATCGGAGCTGTGGTCGCTGCTGTGATGTGTAGGAGGAAGAGCTCAGGTGGAAAAGGAGGGAGCTACTCTCAGGC
TGCGTGCAGCGACAGTGCCCAGGGCTCTGATGTGTCTCTCACAGCTTGAAAAGCCTGAGACAGCTGTCTTGTGAG
GGACTGAGATGCAGGATTTCTTCACGCCTCCCCTTTGTGACTTCAAGAGCCTCTGGCATCTCTTCTGCAAAGGC
ACCTGAATGTGCTGCGTCCCTGTTAGCATAATGTGAGGAGGTGGAGAGACAGCCCACCCTTGTGTCCACTGTGA
CCCCGTGCCATGCTGACCTGTGTTTCTCCCCAG

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FIGURE 1989

MLVMAPRTVLLLLSAALALTETWAGSHSMRYFDTAMSRPGRGEPRFISVGIVDDTQFVRFDSDAASPREEPRAPW
IEQEGPEYWRNTQIFKTNTQTDRESLRNLRGYNQSEAGSHTLQSMYGCDVGPDGRLLRGHNQYAYDGKDYIAL
NEDLRSWTAADTAAQITQRKWEAARVAEQDRAYLEGTCEWLRRYLENGKDTLERADPPKTHVTHHPISDHEATL
RCWALGFYPAEITLTWQRDGEDQTQDTLVELTRPAGDRTFQKWAAVVVP SGEEQRYTCHVQHEGLPKPLTLRWEF
SSQSTVPIVGIVAGLAVLAVVIGAVVAAVMCRRKSSGGKGGSYSQAACSDSAQGSVDVSLTA

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FIGURE 1990

GCGTGATGTCTCACAGAAAGTTCTCCACTCCCAGACATGGGTCCCTCGGCTTCCTGCCTTGGAAGCGCAGCAGCA
GGCATTGTGGGAAGGTGAAGAGCTTCCCTAAGGATGACCCGTCCAAGCCGGTCCACCTCACAGCCTTCTGGGAT
ACAAGGCTGGCATGACCCACATCGTGCGGGCTCTGGAGAAGATTGACCTTAAGTTCATTGACACCCCTCCAAGT
TTGGCCATGGCCACTTCCAGACCATGGAGGAGAAGAAAGCATTGATGGGACCACTCAAGAAAGACCGAATTGCAA
AGGAAGAAGGAGCTTAATGCTGGGAACAGATATTGCAACTGGTGGGATCTCAATAAAAGTTATTTTCCA

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FIGURE 1991

MSHRKFSTPRHGSLGFLPWKRSSRHCGKVKSF PKDDPSKPVHLTAFLGYKAGMTHIVRALEKIDLK FIDTPSKFG
HGHFQTMEEKKAFMGPLKKDRIAKEEGA

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FIGURE 1992

ATTCTCCCCAGAGGCCGAGATGCGGGTCATGGCGCCCCGAGCCCTCCTCCTGCTGCTCTCGGGAGGCCTGGCCCT
GACCGAGACCTGGGCCTGCTCCCACTCCATGAGGTATTTGACACCGCCGTGTCCCGGCCCGGCCGAGAGCC
CCGCTTTCATCTCAGTGGGCTACGTGGACGACACGCAGTTTCGTGCGGTTTCGACAGCGACGCCGCGAGTCCGAGAGG
GGAGCCGCGGGGCCCGTGGGTGGAGCAGGAGGGGCCGGAGTATTGGGACCGGGAGACACAGAACTACAAGCGCCA
GGCACAGGCTGACCGAGTGAGCCTGCGGAACCTGCGCGGCTACTACAACCAGAGCGAGGACGGGTCTCACACCT
CCAGAGGATGTATGGCTGCGACCTGGGGCCCCGACGGGCGCCTCCTCCGCGGGTATGACCAGTCCGCCTACGACGG
CAAGGATTACATCGCCCTGAACGAGGACCTGCGCTCCTGGACCGCCGCGGACACCGCGGCTCAGATCACCCAGCG
CAAGTTGGAGGCGCCCCGTGCGGCGGAGCAGCTGAGAGCCTACCTGGAGGGCACGTGCGTGGAGTGGCTCCGCAG
ATACCTGGAGAACGGAAGGAGACGCTGCAGCGCGCAGAACCCCCAAAGACACACGTGACCCACCACCCCTCTC
TGACCATGAGGCCACCCCTGAGGTGCTGGGCCCCGAGGCTTCTACCTGCGGAGATCACACTGACCTGGCAGCGGGA
TGGGGAGGACCAGACCCAGGACACCGAGCTTGTGGAGACCAGGCCAGCAGGAGATGGAACCTTCCAGAAGTGGGC
AGCTGTGGTGGTGCCTTCTGGACAAGAGCAGAGATACACGTGCCATATGCAGCACGAGGGGCTGCAAGAGCCCCCT
CACCTGAGCTGGGAGCCATCTTCCAGCCACCATCCCCATCATGGGCATCGTTGCTGGCCTGGCTGTCTGGT
TGTCTAGCTGTCTTGGAGCTGTGGTCACCGCTATGATGTGTAGGAGGAAGAGCTCAGGGCATTCTTCTCCAC
AGGTGGAAAAGGAGGGAGCTGCTCTCAGGCTGCGTGCAACAGTGCCAGGGCTCTGATGAGTCTCTCATCAC
TTGTAAAGCCTGAGACAGCTGCCGTGTGGGACTGAGATGCAGGATTTCTTCACACCTCTCCTTTGTGACTTCAA
GAGCCTCTGGCATCTCTTTCTGCAAAGGCGTCTGAATGTGTCTGCGTTCCCTGTTAGCATAATGTGAGGAGGTGGA
GAGACAGCCCACCCCGTGTCCACCGTGACCCCTGTCCCACTGACCTGTGTTCCCTCCCCGATCATCTTTCC
TGTTCCAGAGAGGTGGGGCTGGATGTCTCCATCTCTGTCTCAAATTCATGGTGCACTGAGCTGCAACTTCTTACT
TCCCTAATGAAGTTAAGAACCTGAATATAAATTTGTGTTCTCAAATATTTGCTATGAAGCGTTGATGGATTAATT
AAATAAGTCAATTCCTAGAAGTIGAGAGAGCAAATAAGACCTGAGAACCTTCCAG

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FIGURE 1993

MRVMAPRALLLLLSGGLALTETWACSHSMRYFDTAVSRPGRGEPRFISVGIVDDTQFVRFDSDAASPRGEPRAPW
VEQEGPEYWDRETQNYKRQAQADRVSLRNLRGYYNQSEDSHTLQRMYGCDLGPDRLLRGYDQSAYDGKDYIAL
NEDLRSWTAADTAAQITQRKLEAARAAEQRAYLEGTCVEWLRRYLENGKETLQRAEPPKTHVTHHPLSDHEATL
RCWALGFYPAEIITLWORDGEDQTQDTELVEVTRPAGDGTQKWAADVVP SGQEORYTCHMQHEGLQEPLTISWEP
SSQPTIPIMGIVAGLAVLVVLAVLGAVVTAMMCRRKSSGHFLPTGGKGGSCSQAACSN SAQGSDESLITCKA

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FIGURE 1994

GGAAAGGTGTACGCAGGCGCAGTGGCGTCTAAATTGGGCCCACTAAATGCGTCGGAGCATCTCCGCGCCAGGC
GGCTCCTCCTCACTGCGGCAACCCGGGAAAACCTTGTGAACTAATCAGAAAAAGTGAAGGCGGGAGATCTTGGGG
CGCTGTCCAATGGCGCGGAAGAGAACAATGAGCTGGCCAATCGGGAACGGCACGGGGGCGGGCTCGCTCGGCGC
GAAGTTCGGGCCCCGGGAATTCCGAAGGAGGGGTAGGCGCTGCCCGCGCGCAGAGGCCGCGCCCCCTCTGGCCCCG
GCTTCTTGGCTGTCAAACAGATGCAGCAACGTCGGCTCCTGCCGAGGAGCCCAAGGGGTCCCGGGATCCGCCGCA
CAGGCTGGCACTGCTTGAAGAGGAGGCTACTCGGAGACTGCGCCGCGCGGGTAGATCCGAAACGGGGCTGGGGCG
GAGTGGGAAAAGGCCGGGTATGCCTTGCATGATCGCGGGAGCTCCTTCTGTTTTTATCCACCTAGAGAAGCC
GGGAAGTAGGGGTTTAGGTCCAATTTGTTGGAGTACTTAAGGACTCGTTTGCATTTCTTTTGGGGGATGACAGT
GGATTCAATGCCCTCGGAGGTTCAACCAGTTATGAGTGAGGGATTGGCCAGAAGATCGGGGCGCAGGCAAGCAGG
AGTGCTCTATTAGGATAAGCAAGTTTGACAGGAAGAAGCTGCTCTTCTCCGAATTACACAGAGGTGATGTGTTG
TATTGCACGTAGACGTGTGTATAACAGGACCTCCTTCCCCGCGCCCCGCCACCCGACACACAGGAGCTGCCT
AAAGTATCCTTGCCTTGCAGATTGGAGGCTCCCCAAATATTTTGTGATCTGAGGATCCAGCTCAAGTGAGGTGCC
ATAGGACGTGTTCTGAGTTGCATTGCACGGAGACCTTCTTGGAAATTTTTCATTGCAAGTCGGCTTAACCAAT
TTTGCATTGAGTCTTAGGCTGCTTGCATCTGAATTTGGGCTATTAGGTAGTGTGCTCAAAGTTGAAACCGCAT
ACAGCACAACTCAAGTTTGATCAGACTGGGAAGCGAACTTAAGCCAGCGGTGCGTGGCCCAGGAGTGGGAAAGG
AAATGGATGCTGAAGTGAAGAGGTGGTGCAGAGGGGCGACCGCCCATGCTGCCCTGCTTCCAACCTGCTGCGCA
TAGGGGGCGGCAGGGGCGGTGATCTCTACACCTTCCACCCCCCGCGGGGCTGGCTGCACCTATCGCTTGGGCC
ACAGGGCGGACCTGTGTGATGTGGCCCTGCGGCCCCAGCAGSAGCCTGGCCTCATCTCTGGGATCCACGCCGAAC
TGCATGCCGAGCCCCGGGTGATGACTGGAGGGTCAGCCTGGAAGACCACAGCAGCCAAGGTGAGCATTAAAGCAG
GGCAGCTTTGCCCTGGGTGGTTGAAGCGCCAGGCTGGAATGAGTAAGGTCTCCACAAGACCCTGCTGCCTGCCT
CCCATACTCCCATCAGATTGGATGGATAGTCTGTTGCCAGACCTTATCTTCCCACCAGAAGTGTGCACAGTCAG
AAGCTCTTGCAGACTGACCTTTTGGTCCCGTTAGCTCATACAGGACCTGGGATATCATCAGAAAGATATC
ACAGTGGGGATGTTCTGAGGCCACTAGAGGCCAAGTTTAGACTTGAATTCAGTTTCCAGCTTTGCTGAGGCACTCT
GTTCTGGGTTAGGGCAGTTCTATGTTGAATAATGTTTTTAATAATCTGGGCATGTCTTCTCCGTGACTTGAGG
CAGTTAGCCTCAGAAAGCCTAGATTACATTTGAGTTTTGCCACTGCCTCTTGGTAAAGTCAGCTGTAGGAGTGT
TATGGTTATTAGACTATAGTAGCCAACATTCTAGTGCTTACTGTTATGAGCCAGGCCCTATTTTAAAGTGTAT
TGAATGTAGGTGGTACTAATATATCCTCATTTACAGTAAAGGAAAATGAGGCACAAAGAGGTTAAGGAACCTGT
CCAGGGCTGGGCATGGTGGTTTACACCTATAATCCAGCACTTTGGGAGGCTAAGGCAGGGTGGATCACTTGAGCT
CAGGAGTTCGAGACCAGCCTGGGCAACATGGTGAAAACCTGTCTCTACCAAAAAATTAATTAATTTTTAAAAAA
AGCCTGGGCGCGGTGGCTCACGCTGTAATCCAGCACTTTGGGAGGCCGAGATGGGCAGATCACGAGGTCAGGA
GTTTCGAGACCATCCTGACCAACATGTTGAAACCCCATCTGTGCTGAAAAAAAATACAAAAATTAGCCAGGTGTG
GTGGCGTGACCTGTAACCCAGCTACTCAGGAGGCTGAAGCAGCAGAATCACTTGAACCCGGGAGGCGGAGGTT
GCAGTGAGCTGAGATCGCACCACTGCACTCCAGCTTGGGCGACAGAGCGAGACTCCATCTCAAACAAACAAACAA
ACCAAAAGCTTGGCCAGGGTCACATAACTGGTAAGTGGTAGAGCTAGGATCTGAACGAGCTGGAGCTGGGGGAGA
GTGAGCATGTTTGAAACTGGACCTTAGGGCGGGGCACGGTGGCTCACGCCTGTAATCCAGCACTTTGGGAGGC
TGAGGCGGGCAGATCAGGAGGTCAGGAGTATGAGACCAGCCTGGCCAAACATGGTAAAACCTGTCTCTGCTAAAA
ATAAAAAAATTAGCCAGACGTGGTGACATGCCTGTAATCCAGCTACTCAGGAGGCTGAGGCAGGAGAATTGC
TTGAACCTGGGAGGCGGTTCAAGCTTGGGCAATAGAGCAAACTCCATC

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FIGURE 1995

TTGGTGGATTCTCAGTCCCTGCCGCCGCGGGGCGCCCTGGGATAGCGGCGGGGCTCCTGAACAGATCTCGGCC
CCTTTCCAAACACTCCTGATGCCTCATTTGCCTCTCGCTTCTTTTCGACCACCATTITGGGGGCTGAGGCACTCA
CGGGGCTCCCCAGGTTTCACTCCGTTTCTACACAGTCGGAGCCCCATGGATCTCCCATCTCCCGAGGAACCGT
GAAGCCAAACAGAAGCGCCTGCGAGAGAAGCAGGCTACTCTGGAGGCTGAGATAGCAGGGGAGAGCAAGTCACCT
GCAGAATCCATTAAGGCCTGGAGGCCAAGGAGTTAGTATTGTATGAAATCCCTACGAAACCCGGTGAAAAGAAA
GATGTCTCTGGGCCCCCTGCCTCCTGCATACAGCCCCGATATGTTGAGGCTGCCTGGTACCCGTGGTGGGTACGA
GAGGGCTTCTTCAAACCAGAAATATCAGGCCCCGGCTGCCCAAGCTACAGGGGAGACCTTTTCCATGTGTATCCCA
CCTCCCAATGTCACTGGCTCCCTGCACATTGGCCACGCACTACGGTGGCCATACAGGATGCCCTCGTGCGCTGG
CACCGGATGCGTGGGGATCAAGTGCTGTGGGTCCCTGGTTTACAGTCATGCAGGAATTGTACACAAGCTGTGGTG
GAGAAACAACGTGGAAGGAACGGGGAGTGAGGAGACATGAGCTGAGCCGGGAGGCTTCCCTAGGGAGGTGTGG
CAGTGGAAGGAGGCGAAAGGTGGAGAGATCTGTGAGCAGCTGCGAGCTCTGGGTGCCTCCCTGGACTGGGATCGA
GAGTGTTTTACCATGGATGTTGGCTCCTCAGTGGCTGTGACTGAAGCTTTTGTGCGGCTCTACAAGGCGGGGTG
CTGTACCGGAACCATCAGCTTGTCAACTGGTCACTGTGCTTTAAGATCAGCCATCTCGGACATTGAGGTGGAGAAC
CGGCCCCCTGCCTGGCCACACACAGCTTCGACTGCCTGGCTGCCCAACCCCGTGTCTTTTGGCCTCCTATTTTCT
GTTGCCCTTCCCGTGGATGGAGAGCCTGATGCAGAGGTTGTGGTAGGAACCACAAGGCCAGAGACGCTGCCTGGA
GATGTGGCTGTGGCCGTTTATCCAGACGACTCGCGATACACACATCTACACGGGCGACAGCTTCGTACCCCTTG
ATGGGGCAGCCTCTTCCCTCATCACAGACTATGCTGTTTACGCCACATGTGGGCACGGGGGAGTGAAGGTGACT
CCAGCTCACAGTCCTGCCGATGCTGAGATGGGGGCGGACATGGCTTGAGCCCTTGAATGTCATTGCGGAGGAT
GGGACCATGACCTCCCTCTGCGGGGACTGGCTGCAGGCTTTCACCGGTTTGTGGCCCGGGAAAAGATAATGTCT
GTGCTGAGTGAATGGGGCTGTTCCGGGGCCTCCAGAACCACCCATGGTACTGCCATCTGCAGCCGTTCTGGG
GATGTGATAGAATACCTGCTGAAGAACCAGTGGTTTGTCCGCTGCCAGGAAATGGGGGCGGAGCTGCCAAGGCT
GTGGAGTCGGGGGCCCTGGAGCTCAGTCCCTCCTTCCACCAGAAGAACTGGCAGCACTGGTTTCCCATATTGGG
GACTGGTGTCTCCCGGCAGCTGTGGTGGGGCCATCAGATTCCAGCCTACCTGGTTGTAGAGGACCATGCGCAG
GGAGAAGAGGACTGTGGGTGGTTGGGCGGTGAGAGGCTGAGGCCAGAGAGGTAGCAGCGGAACTGACAGGGAGG
CCAGGGGCGAGAGCTGACCCTGGAGAGGGATCCTGATGTCCTAGACACATGGTTTCTTCTGCCCCGTTCCCTTT
TCTGCCCTGGGCTGGCCCCAAGAGACCCAGACCTTGCTCGTTTCTACCCCTGTCACTTTTGGAAACGGGCAGC
GACCTTCTGCTGTTCTGGGTGGGCCGATGGTCATGTTGGGGACCCAGCTCACAGGGCAGCTGCCCTTACAGAG
GTGCTTCTTATCCCATGGTTCCGGACAGGCAGGGCCGGAAGATGAGCAAGTCCCTGGGGAATGTGCTGGACCCA
AGAGACATCATCAGTGGGGTGGAGATGCAGGTGCTGCAGGAAAAGCTGAGAAGCGGAAATTTGGACCCTGCAGAG
CTGGCCATTGTGGCTGCAGCACAGAAAAGGACTTTCCTACGGGATCCCTGAGTGTGGGACAGATGCCCTGAGA
TTCACACTCTGCTCCCATGGAGTTCAGGCGGGGCACTGCACCTGTGAGTCTCTGAGGTCCAGAGCTGCCGACAT
TCTGCAACAAGATCTGGAATGCTCTTCGCTTTATCCTCAATGCTTTAGGGGAGAAATTTGTGCCACAGCCTGCT
GAGGAGCTGTCTCCCTCCTCCCGATGGATGCCTGGATCCTGAGCCGCTTGCCCTGGCTGCCAGGAGTGTGAG
CGGGGCTTCTCACCAGAGGCTCTCGCTCGTCACTCATGCCCTGCACCACTTCTGGCTTCACAACCTCTGTGAC
GTCTACCTGGAGGCTGTGAAGCCCGTGTGTGGCACTCGCCCCGCCCCCTGGGGCCCCCTCAGGTCTGTTCTCC
TGCGCTGACCTCGGCTCCGCTCCTGGCCCCACTGATGCCCTTCTGGCTGAAGAGCTCTGGCAGAGGCTGCCC
CCAGGCTGCTGGTTGCCCCCTGCCCCAGCATCTCGGTTGCCCTTACCCAGCGCCTGCAGCTTGGAGCACTGG
CGCCAGCCAGAGCTGGAGCGGCGCTTCTCCCGGTCCAGAGGTGCTGCAGGTGCTAAGGGCTCTCCGAGCCACG
TACCAGCTCACCAAAGCCCGGCCCGAGTGCTGCTGCAGAGCTCAGAGCCTGGGGACCAGGGCCTCTTCGAGGCC
TTCTTGGAGCCCCCTGGGCACCCTGGGCTACTGTGGGGCTGTGGGCTGTTACCCCGAGGCGCAGCAGCTCCCTCC
GGCTGGGCCCAGGCTCCACTCAGTGACACGGCTCAAGTCTACATGGAGCTGCAGGGCCTGGTGGACCCGAGATC
CAGCTACCTCTGTTAGCCGCCCCAAGGTACAAGTTGCAGAAGCAGCTTGACAGCCTCACAGCCAGGACCCCATCA
GAAGGGGAGGCAGGGACTCAGAGGCAACAAAAGCTTTCTTCCCTCCAGCTGGAATTGTCAAACCTGGACAAGGCA
GCCTCTCACCTCCGCGAGCTGATGGATGAGCCTCCAGCCCCAGGGAGCCCGAGCTCTAACTCATCATCCCCATC
AGTTTCTCCTCCTCTCAGACCTGTCTTTGAGGACAAACAGATTGTGAGCTGTGAGGTGAGTGGGACGTGAGA
GACTATGTGGTCCATCGCCTTCAATTGTGTAATGAGGACACAGACTGGCTGGTGCAGTGACTGTGGTGTCTT
GAGATGCTCACATTACTGCCCGGCTGCCTCCACCTGGAAGTCTGGGAATGAGGAGATTGAGATAAACTTTTGA
AATCCC

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FIGURE 1996

MGQPLPLITDYAVQPHVGTGAVKVTPAHSPADAEMGARHGLSPLNVIAEDGTMTSLCGDWLQGLHRFVAREKIMS
VLSEWGLFRGLQNHPMVLPICSRSGDVIEYLLKNQWFVRCQEMGARA AKAVESGALELSPSFHQKNWQHWF SHIG
DWCVSRQLWWGHQIPAYLVVEDHAQGEEDCWVVRSEAEAREVAAELTGRPGAELTLERDPDVLDTWFSALFPF
SALGWPQETPDLARFYPLSILETGSDLLLFVWGRMVMLGTQLTGQLPFSKVLLHPMVDRDQGRKMSKSLGNVLDP
RDIISGVEMQVLQEKLRSGNLDPAELAIVAAAQKKDFPHGIPEC GTDALRFTLC SHGVQAGDLHLSVSEVQSCRH
FCNKIWNALRFILNALGEKFVPQPAEELSPSSPMDAWILSRALAAQECERGFLTRELSLVTHALHHFWLHNLCD
VYLEAVKPVWLWHSRPLGPPQVLFSCADLGLRLLAPLMPFLAEELWQRLPPRPGCPPAPSISVAPYPSACSLHW
RQPELERRFSRVQEVVQVLRALRATYQLTKARPRVLLQSSEPGDQGLFEAFLEPLGTLGYCGAVGLLPPGAAAPS
GWAQAPLSDTAQVYMELQGLVDPQIQPLLAARRYKLQKQLDSLTARTPSEGEAGTQRQOKLSSLQLELSKLDKA
ASHLRQLMDEPPAPGSPEL

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FIGURE 1997

TCCCATCTTTTCTCGCATTTTTTCACCATCTTTCCCTCAATCTCCAGGAGCCAATGCGAGACTTTTGGCTCCGA
TTAAGCGACGGCCCGAGACTTGGGGTGCGCGAGGAGGATCGACAGAGTGGTGATGGGAGAGCACCCCTTCAAGGGG
ACTGAACCGAGTACACCTACAATGCAGGAATCTGCAGGAATTCTTAGGGGGCCTGAGCCCTGGGGTATTGGACCG
ATTGTATGGGCACCCTGCCACATGTCTGGCTGTCTTCAGGGAGCTCCCATCCTTGGCTAAGAACTGGGTGATGCG
GATGCTCTTTCTGGAGCAGCCTTTGCCACAGGCTGCTGTAGCTCTGTGGGTAAAGAAGGAATTCAGCAAGGCTCA
GGAGGAAAGTACAGGGCTGCTGAGCGGCCTCCGGATCTGGCACACCCAGCTGCTCCAGGCGGGCTCCAGGGCCT
CATCCTCAACCCCATTTTCCGCCAGAACCTCCGCATTGCCCTTCTGGGTGGGGGAAGGCCTGGTCTGATGACAC
AAGTCAGCTGGGACCAGACAAGCATGCCCCGGGACGTTCCCTCCCTTGACAAGTACGCCGAGGAGCGATGGGAGGT
GGTCTTGCACTTCATGGTGGGCTCCCCAGTGCAGCTGTCTAGCCAGGACTTGGCTCAGCTCCTCAGCCAGGCTGG
GCTCATGAAGAGTACTGAACCTGGAGAGCCGCCCTGCATTACTTCCGCTGGCTTCCAGTTCCTGTTGCTGGACAC
CCCGGCTCAGCTCTGGTACTTTATGTTGCAGTATTTGCAGACAGCCAGAGCCGGGGCATGGACCTGGTAGAGAT
TCTCTCCTTCTCTTCCAGCTCAGCTTCTCTACTCTGGGCAAGGATTACTCTGTGGAAGGTATGAGTGATTCTCT
GTTGAACTTCCCTGCAACATCTGCGTGAGTTTGGGCTTGTTTTCCAGAGGAAGAGGAAATCTCGGCGTTACTACCC
CACACGCCTGCGCCATCAATCTCTCATCAGGTGTCTCTGGAGCTGGGGGCACTGTGCATCAGCCAGGTTTCATTGT
CGTGGAACCAATTACCGACTGTATGCCTACACGGAGTCGGAGCTGCAGATTGCCCTCATTGCCCTCTTCTCTGA
GATGCTCTATCGGTTCCCAACATGGTGGTGGCGCAGGTGACCCGGGAGAGTGTGCAGCAGGCAATCGCCAGTGG
CATCACAGCCCAGCAGATAATCCATTTCCCTAAGGACAAGAGCCACCCAGTGATGCTCAAACAGACACCTGTGCT
GCCCCCACCATCACCGACCAGATCCGGCTCTGGGAGCTGGAAGGGACAGACTCCGGTTCCTGAGGGTGTCTCT
GTATAACCAGTTCTGTGCGCAAGTGGACTTTGAGCTGCTGTGGCCACGCGCGGGAGCTGGGCGTGCTCGTGT
CGAGAACTCGGCCAAGCGGCTCATGGTGGTGACCCGGCCGGGCACAGCGACGTCAAGCGCTTTTGGAAGCGGCA
GAAACATAGCTCCTGAGAGCGCGGGACTTGGACACGGACCTCGGCGGGCGGGACTGGGCGGGCGGGGCATCAGA
ACTCAGGTGTTTTTATTTACGCGTCAGGGCTTTTCTGTGTTAATAAGTTATGATAGCT

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FIGURE 1998

MESTPSRGLNRVHLQCRNLQEF LGGLSPGVLDRLYGH PATCLAVFRELP SLAKNWVMRMLFLEQPLPQAAVALWV
KKEFSKAQEESTGLLSGLRIWHTQLLEPGLQGLILNPIFRQNLRIALLGGGKAWSDDTSQLGPDKHARDVPSLDK
YAEERWEVVLHFMVGSPSAAVSQDLAQLLSQAGLMKSTEPGEPPCITSAGFQFLLDTPAQLWYFMLQYLQTAQS
RGMDLVEILSFLFQLSFSTLGKDYSEGMDSLLNFLQHLREFGLVFQKRKSRYYPTRLAINLSSGVSGAGGT
VHQPGEFIVVETNYRLYAYTESELQIALIALFSEMLYRFPNMVVAQVTRESVQQAIASGITAQQIIHFLRTRAHPV
MLKQTPVLPPTITDQIRLWELERDRLRFTEGVLYNQFLSQVDFELLHAHARELGVLVFENSAKRLMVVTPAGHSD
VKRFWKROKHSS

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FIGURE 1999A

TTAGGAAGTTATTTAACTGATCTCTGCCCTAGTTTCTTCATGTGTAAATATGGATAGTAATAGTATCTACCTTA
TGAAGTGACTGTGAAGATAAAATTATGGATTCTGTTTAAAGGGTTTAGGCCAGTGTCTGGCACAGGGGAAGCATTCT
TAAAAATATAGCTGATGCTGTTAAACAATGACTGTTGTTGTTGTTTACTGTTAATTATCCCCAAAGCGGCCATT
CTGTCTGTTGCTGTCAGCTATGACTCAGTCCCCGATTAACTTACGCACCACCCATTTATCCCCTGCAGAGATG
CTGCCCCCACCCTTAGGCCCCGAGGGATCAGGAGCTATGGGACCAGAGGCCCTGTCATCTTACTGCTGCTGCT
CTTGGTGGCAAGTGGAGATGCTGACATGAAGGGACATTTGATCCTGCCAAGTGCCGCTATGCCCTGGGCATGCA
GGACCGGACCATCCCAGACAGTGACATCTCTGCTTCCAGCTCCTGGTCAGATTCCACTGCCGCCGCCACAGCAG
GTTGGAGAGCAGTGACGGGGATGGGGCCTGGTGCCCCGAGGGTCGGTGTTTCCCAAGGAGGAGGAGTACTTGCA
GGTGGATCTACAACGACTGCACCTGGTGGCTCTGGTGGGCACCCAGGGACGGCATGCCGGGGGCTGGGCAAGGA
GTTCTCCCGGAGCTACCGGCTGCGTTACTCCCGGATGGTCGCCGCTGGATGGGCTGGAAGGACCGCTGGGGTCA
GGAGGTGATCTCAGGCAATGAGGACCCTGAGGGAGTGGTGCTGAAGGACCTTGGGCCCCCATGGTTGCCCGACT
GGTTCGCTTCTACCCCGGGCTGACCGGGTCATGAGCGTCTGCTGCGGGTAGAGCTCTATGGCTGCCCTCTGGAG
GGATGGACTCCTGTCTTACACCGCCCCTGTGGGGCAGACAATGTATTATCTGAGGCCGTGTACCTCAACGACTC
CACCTATGACGGACATACCGTGGGCGGACTGCAGTATGGGGTCTGGGCCAGCTGGCAGATGGTGTGGTGGGGCT
GGATGACTTTAGGAAGAGTCAGGAGCTGCGGGTCTGGCCAGGCTATGACTATGTGGGATGGAGCAACCACAGCTT
CTCCAGTGGCTATGTGGAGATGGAGTTTGAGTTTGACCGCTGAGGGCCTTCCAGGCTATGCAGGTCCACTGTAA
CAACATGCACAGCTGGGAGCCGCTGCTGCTGGCGGGGTGGAATGTCGCTTCCGGCGTGGCCCTGCCATGGCCTG
GGAGGGGGAGCCCATGCCCCACAACCTAGGGGGCAACCTGGGGGACCCAGAGCCCGGGCTGTCTCAGTGCCCTT
TGGCGGCGGTGTGGCTCGCTTTCTGCACTGCCGCTTCTCTTTGCGGGGCCCTGGTTACTCTTCAGCGAAATCTC
CTTCATCTCTGATGTGGTGAACAATTCCTCTCCGGCACTGGGAGGCACCTTCCCGCCAGCCCCCTGGTGGCCGCC
TGGCCACCTCCCACCACTTCAGCAGCTTGGAGCTGGAGCCAGAGCCAGAGCCGTGGCCAAGGCCGAGGG
GAGCCCCAGCGCCATCCTCATCGGCTGCCTGGTGGCCATCATCTGCTCCTGCTCATCATTGCCCTCAGCT
CTGGCGGCTGCACTGGCGCAGGCTCCTCAGCAAGGCTGAACGGAGGGTGTGGAAGAGGAGCTGACGGTTACCT
CTCTGTCCCTGGGGACACTATCCTCATCAACAACCGCCAGGTCTTAGAGAGCCACCCCGTACCAGGAGCCCCG
GCCTCGTGGGAATCCGCCCCACTCCGCTCCCTGTGTCCCAATGGCTCTGCGTTGCTGCTCTCCAATCCAGCCTA
CCGCTCCTTTCTGGCCACTTACGCCCGTCCCCCTCGAGGCCCGGGCCCCACACCCGCTGGGCAAAACCCAC
CAACACCCAGGCTACAGTGGGGACTATATGGAGCTGAGAAGCCAGGCGCCCCGCTTCTGCCCCACCTCCCCA
GAACAGCTCCCCATTATGCCGAGGCTGACATTGTTACCTTGCAGGGCGTCACCGGGGCAACACCTATGTGT
GCCTGCACTGCCCCAGGGGAGTGGGGATGGGGCCCCAGAGTGGATTTCCTCGATCTCGACTCCGCTTCAA
GGAGAAGCTTGGCGAGGGCCAGTTTGGGGAGGTGCACCTGTGTGAGGTGACAGCCCTCAAGATCTGGTTAGTCT
TGATTTCCCCCTTAATGTGCGTAAGGGACACCTTTGCTGGTAGCTGTCAAGATCTTACGGCCAGATGCCACCAA
GAATGCCAGGAATGATTTCTGAAAGAGGTGAAGATCATGTGAGGCTCAAGGACCCAAACATCATTCCGGCTGCT
GGCGGTGTGTGTGAGGACGACCCCTCTGCATGATTACTGACTACATGGAGAACGGCGACCTCAACCAGTTCT
CAGTGCCCAACAGCTGGAGGACAAGGCAGCCGAGGGGCCCCCTGGGGACGGGAGGCTGCGCAGGGGCCACCAT
CAGCTACCCAATGCTGCTGCATGTGGCAGCCAGATCGCCTCCGGCATGCGCTATCTGGCCACACTCAACTTTGT
ACATCGGGACCTGGCCACGCGGAAGTGCCTAGTTGGGGAAAATTTACCATCAAAATCGCAGACTTTGGCATGAG
CCGGAACCTCTATGCTGGGGACTATTACCGTGTGCAGGGCCGGGAGTGTGCCCATCCGCTGGATGGCCTGGGA
GTGCATCCTCATGGGAAGTTACGACTGCGAGTGACGTGTGGGCCTTTGGTGTGACCCTGTGGGAGGTGCTGAT
GCTCTGTAGGGCCAGCCCTTTGGGCAGCTCACCGACGAGCAGGTATCGAGAACGCGGGGAGTTCTTCCGGGA
CCAGGGCCGGCAGGTGTACCTGTCCCGGCCGCTGCTGCCCGCAGGGCCTATATGAGCTGATGCTTCGGTGTG
GAGCCGGGAGTCTGAGCAGCGACCCCTTTTCCAGCTGCATCGGTTCTTGGCAGAGGATGCACTCAACACGGT
GTGAATCACACATCCAGCTGCCCCCTCCCTCAGGGAGCGATCCAGGGGAAGCCAGTGACACTAAAACAAGAGGACA
CAATGGCACCTCTGCCCTTCCCTCCTCGACAGCCCATCACTCTAATAGAGGCAGTGAGACTGCAGGTGGGCTGG
GCCCCACCCAGGGAGCTGATGCCCTTCTCCCTTCTTGACACACTCTCATGTCCCCTTCTGTCTTCTTCTTCT
AGAAGCCCCTGTGCGCCACCCAGCTGGTCTGTGGATGGGATCCTCTCCACCCCTCTCTAGCCATCCCTTGGGGA
AGGGTGGGGAGAAATATAGGATAGACACTGGACATGGCCCATTTGGAGCACCTGGGCCCCACTGGACAACACTGAT
TCTTGGAGAGGTGGCTGCGCCCCAGCTTCTCTCTCCCTGTACACACTGGACCCCACTGGCTGAGAATCTGGGG
GTGAGGAGGACAAGAAGGAGAGGAAAATGTTTCTTGTGCTGCTCCTGTACTTGTCTCAGCTTGGGCTTCTTC

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FIGURE 1999B

CTCCTCCATCACCTGAAACACTGGACCTGGGGGTAGCCCCGCCCCAGCCCTCAGTCACCCCCACTTCCCCTTGC
AGTCTTGTAGCTAGAACITCTCTAAGCCTATACGTTTCTGTGGAGTAAATATTGGGATTGGGGGAAAGAGGGAG
CAACGGCCCATAGCCTTGGGGTGGACATCTCTAGTGTAGCTGCCACATTGATTTTCTATAATCACTTGGGGTT
TGTACATTTTGGGGGGAGAGACACAGATTTTACACTAATATATGGACCTAGCTTGAGGCAATTTAATCCCCT
GCACTAGGCAGGTAATAATAAAGGTTGAGTTTCCAC

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FIGURE 2000

CGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTATTTTCT
TGCCCCATACATACCTTGAGGCGAGCAAAAAATTAAATTTTAACCATGAGGGAAATCGTGCACATCCAGGCTGG
TCAGTGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACCGCTGT
CTCCGTGGTTCGGATGTCCATGAAGGAGGTTCGATGAGCAGATGCTTAACGTGCAGAACAAAGAACAGCAGCTACTT
TGTGGAATGGATCCCCAACATGTCAAGACAGCCGTCTGTGACATCCCACCTCGTGGCCTCAAGATGGCAGTCAC
CTTCATTGGCAATAGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAGCAGTTCCTGCCATGTTCCGCCG
GAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCTGAGAGCAACATGAA
CGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAGGAGGATTCGGTGAGGAGGCCGA
AGAGGAGGCCTAAGGCAGAGCCCCATCACCTCAGGCTTCTCAGTTCCCTTAGCCGTCTTACTCAACTGCCCTT
TCCTCTCCCTCAGAAATTTGTGTTTGCTGCCTCTATCTTGTTTTTGTCTTCTTCTGCGGGGGGTCTAGAACAG
TGCTTGGCACATAGTAGGCGCTCAATAAATACTTGTTTGTTGAATGTCTCCTCTCTCTTCCACTCTGGGAAACC
TAGGTTTCTGCCATTCTGG

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FIGURE 2001

MMAACDPRHGRYLTVAAVFHGRISMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSSA
IQELFKRILEQFTAMFGRKAFLHWYTGE GMD

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FIGURE 2002

ATGGCCCCCTGCACTGCTCCTGATCCCTGCTGCCCTCGCCTCTTTCATCCTGGCCTTTGGCACCGGAGTGGAGTTC
GTGCGCTTTACCTCCCTTCGGCCACTTCTTGAGGGATCCCGGAGTCTGGTGGTCCGGATGCCCCGCCAGGGATGG
CTGGCTGCCCTGCAGGACCGCAGCATCCTTGCCCCCTGGCATGGGATCTGGGGCTCCTGCTTCTATTTGTTGGG
CAGCACAGCCTCATGGCAGCTGAAAGAGTGAAGGCATGGACATCCCGGTACTTTGGGGTCTTCAGAGGTCACTG
TATGTGGCCTGCACTGCCCTGGCCTTGACGCTGGTGATGCGGTACTGGGAGCCCATACCCAAAGGCCCTGTGTTG
TGGGAGGCTCGGGCTGAGCCATGGGCCACCTGGGTGCCCTCCTCTGCTTTGTGCTCCATGTCACTCCTGGCTC
CTCATCTTTAGCATCCTTCTCGTCTTTGACTATGCTGAGCTCATGGGCCTCAAACAGGTATACTACCATGTGCTG
GGGCTGGGCGAGCCTCTGGCCCTGAAGTCTCCCCGGGCTCTCAGACTCTTCTCCACCTGCGCCACCCAGTGTGT
GTGGAGCTGCTGACAGTGCTGTGGGTGGTGCTACCTGGGCACGGACCGTCTCCTCCTTGCTTTCTCCTTACC
CTCTACCTGGGCCTGGCTCACGGGCTTGATCAGCAAGACCTCCGCTACCTCCGGGCCAGCTACAAAGAAAACCTC
CACCTGCTCTCTCGGCCCCAGGATGGGGAGGCAGAGTGAGGAGCTCACTCTGGTTACAAGCCCTGTTCTTCTCT
CCCGCTGAATTCTAAATCCTTAACATCCAGGCCCTGGCTGCTTCATGCCAGAGGCCCAAATCCATGGACTGAAGG
AGATGCCCCCTTCTACTACTTGAGACTTTATTCTCTGGGTCCAGCTCCATACCCTAAATCTGAGTTTCAGCCACT
GAACTCCAAGGTCCACTTCTCACCAGCAAGGAAGAGTGGGGTATGGAAGTCATCTGTCCCTTCACTGTTTAGAGC
ATGACACTCTCCCCCTCAACAGCCTCCTGAGAAGGAAAGGATCTGCCCTGACCACTCCCTGGCACTGTACTTG
CCTCTGCGCCTCAGGGGTCCCCCTTCTGCACCGCTGGCTTCCACTCCAAGAAGGTGGACCAGGGTCTGCAAGTTCA
ACGGTCATAGCTGTCCCTCCAGGCCCAACCTTGCTCACCCTCCCGGCCCTAGTCTCTGCACCTCCTTAGGCC
CTGCCTCTGGGCTCAGACCCCAACCTAGTCAAGGGGATTCTCCTGCTCTTAACTCGATGACTTGGGGCTCCCTGC
TCTCCCGAGGAAGATGCTCTGCAGGAAAATAAAAGTCAGCCTTTTTCTAC

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FIGURE 2003

MAPALLLIPAALASFILAFGTGVEFVRFTSLRPLLGGIPESGGPDARQCWLAAALQDRSILAPLAWDLGLLLLFVG
QHSILMAAERVKAWTSRYFGVLQRSLYVACTALALQLVMRYWEPIPKGPVLWEARAEPWATWVPLLCFVLHVISWL
LIFSILLVFDYAELMGLKQVYYHVLGLGEPLALKSPRALRLFSHLRHPVCVELLTVLWVPTLGTDRLLLAFLIT
LYLGLAHGLDQQDLRYLRAQLQRKLHLLSRPQDGEAE

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FIGURE 2004A

AGACAAAGCGGTGCGCGCCCCCGCCCGCCCCCTGGTCTCTGTCTCCGTCCCTCCTCCTTTGCTGCCTCTTTCCC
TCCCTCCTCTCCCTCCCTCCTCCCTCCCTCCAGTCTCCGGATCTCCCTCGGTCCCTCTCTCCTCCTCTCTCCTCTC
TCTGGACGCCCCGCTCCTCCGCACCCCTCCCCGGGGGTCCCGCGGCCTGTGAGTTGACTGAGGGGCTCAGACT
TGGGGAGTGGGTGTCTCCTCGCCCTGTCTTGTCTCCCGTCCCTGGCCCGGACCTTGGCTGTCTCCTCTTTGTGC
CGAGATTGTCTGTCTGTGCGGTACAGCGGGGTGGAGACGGCCGGCTCTGTACGGCTTCATGAGAGCGGGGACG
GGGCGCAGGACTTGCAGGCGCCGGGAGAGAGACATGGAGCCGGCCCTTGGCACTCTGGGGTTCGCGTGGGGCAG
TCGGTGGGGGAGGCAGGCGGTGGTGACAGGACAGGGTGGGGGTGGACGCCAGGGTTCTGGGAACGCGCTGGCAGC
CCTGACGCCCCGGTTCCGAAAGTCTCGGGGGTGGGTATTTCCCCGACCCGCTCGGGGGCGGAGTGCGGGGCAG
AGGGGTGGGGGTGGGGAGAGGCGTGGCCCCGAGCGGTGTGGAAGCGGAGCCGGGACCTTTGGGGCCCCGCGTGA
GACGCGCCCCGGTGTCTGCCGCCGCCCTCCTTTCCCTCCTTCCCTGGTTTCCCTTCTCCTCTAGACCTGTTGCTC
TCCGCCCCCTCCTTGCTCCCAACACCCCTCAGGTCCCCTTGCCTCCTGGTCTCTTTCAGGGATTCTTGGTCTCT
CCTTCCACACTAGCCTCCCTGGGGTATCGCTGAGGCAGCCTGGCCTGCACCCAGGTTCCCTCACCCTGCCAC
ATTTCTCTCTTCTCCCTCAGCCAACTTTCTTTTCGCCCTTCTCTCTTTCTCACATCCTAGAGACGGTCTTT
AATACGCATTAAACCTGTGCTGCCACATCTGGCTCCTGCCCTCATTGCCTCCAATCCGACTCTTCTCTCACAT
CACCCCCACCACCCCAACTTGGGCTCACAACCTTCTTCACTTTTCCATTTCCTCAGTTCTCTGCCTTCCGTC
TTTCCCTCTGTCTCATCCTTAGCCCCCTGTGCCCTGTCTTGTGTCCCACTCTCCCCCTCCACTTCTCTCTCTCC
CACCTCAGTCTCACCCCCGGGTGTCTCACTCTCTGGAGCCTCTCCTTCTGTCTCTGTCCCCAGTGTCCCT
ACCCTCACCTCAAGACGACCATGGCCACCATCCCAGACTGGAAGCTACAGCTGCTAGCCCGCGCCGGCAGGAGG
AGGCGTCCGTTTCGAGGCCGAGAGAAAGCAGAACGGGAGCGCCTGTCCAGATGCCAGCCTGAAACGAGGGCTCC
TGGAGCGCCCGCGGCCAAGCTTGGGCTGTCCCTGGGGAGCCTAGCCCTGTGCTAGGGACTGTAGAGGCTGGAC
CTCCAGACCCGGATGAGTCTGCGGTCTTCTGGAGGCCATCGGGCCAGTGCACCAGAACCGATTATCCGGCAGG
AGCGGCAGCAGCAGCAGCAACAACGAGTGAAGAGCTGTAGCAGAGAGAAAGCCTGGGCCTCTGGAGG
CCCCGGAGCGGAGACCCAGCCCTGGGGAGATGCGGGATCAGAGCCCCAAGGGAAGAGAGTCAAGAGAAGAGAGAC
TAAGTCCGAGGGAGACCAGAGAGAGGAGGCTGGGGATAGGGGGAGCCCAAGAGTTGAGCCTGAGGCCTCTGGAGG
CTCGGGACTGGAGGCAAGCCAGGAGAGGTGGGAGACAGGAGCTCCCGACTGTCTAGAGGCATGGAAATGGAGGC
TGAGTCTCTGGAGAACTCCAGAGCGGAGTCTGAGACTAGCAGAGTCTCAGAGCAAGCCCCAGGAGAAAGAGG
TGGAAAGTAGACTGAGCCAGGGGAATCTGCCTACCAGAAGTTGGSCCTGACAGAGGCCATAAATGGAGACCTG
ACTCCAGAGAGTCTCAGGAACAGAGTTTGGTACAACCTGGAGGCAACAGAGTGGAGGCTGAGGTGAGGAGAAGAA
GACAAGACTACTCGGAAGAATGTGGGAGAAAAGAAGAGTGGCCAGTTCCAGGGGTAGCTCCAAAAGAGACTGCAG
AGCTGTCCGAGACCTGACAAGGGAGGCCAAGGCAACAGTTCCGAGGAGTGGAGGCAGCAGCAGAGGCCTG
TGGAAAGATGGCGAGAGGGGCATGAAGCCAACAGAAGGTTGAAATGGACCCTGAACCTCCGGGAAGGCTCGAGAAT
GGACACCCAGGGACATAGAGGCTCAAACCTCAGAACTAGAACCTCCAGAGTCAGCAGAGAAGCTTCTGGAATCTC
CCGGTGTGGAGGCTGGAGAAGGGGAGGCTGAGAAGGAGGAGCGGGGGCTCAGGGCAGGCCTCTGAGAGCCCTGC
AGAACTGTCTGTCTGTGCCCTCCCCCTCCACACAGAGGACGCTGGGACTGGAGGCCTGAGACAGCAGGAAGAGG
AAGCAGTGGAGCTCCAGCCCCACCACAGCCCCCTCTGTCTCCCCCAGCCCCAAGTCCCCCAACCTC
CTGGGGATCCCCCTCATGAGCCGCTGTTCTATGGGGTGAAGGCAGGGCCAGGGGTGGGGGCCCCCGCGCAGTG
GACACACCTTCACCGTCAACCCCCGGCGGTCTGTGCCCTTGCACCCAGCCACCCCAACCTCTCCAGCCACAG
TTGATGCTGCAGTCCCGGGGGCTGGGAAGAAGCGGTACCCAACTGCCAGGAGATCTTGGTTCTGGGGGGCTACC
TCCGTCTCAGCCGAGCTGCCTTGCCAAGGGGTCCCCGAAAGACACCACAAACAGCTTAAGATCTCCTTCAGCG
AGACAGCCCTGGAGACCACGTACCAATACCCCTCCGAGAGTTCCGGTACTGGAGGAGCTGGGCCCGGAGCCTGAGG
TCCCCAGTGCCCCCAACCTTCCAGCAGCCCAACCCGACGACGAAGAGGATGAGGAAGAGCTGTGCTGTCTGAGC
CAGAGCTCCAGGGCGGGGTGCGCACCAAGGCCCTGATTGTGGATGAGTCTGCCGGCGGTGACCATCTTCCAACA
TAGGGATATACTCCTCCTTCTTATAACTGAAGATCCTGGAGCCCGGAAGATTAGGGCAGACAGACCTGATA
ATGAGCCTGGCAGGGAAGGGCAACCAACATCTTGTAACCTGCTTTCCCCACCTGTTTCTGGGGGCGAGCCAAT
TGCCCAATTTCTACCTTAATCCAAGTCCCTGGTGTGGGTGGGGTTAAACGTGCTGGTGCATCTAGGTCTATCCA
AGAGTGAGCGCCAAGTCTGAGAAGGGGCACAGAACTCCCTGGAGGGTGGAGATGGAGACCTGCCCCCATGGC
AGGGTACACTCTCCCCACAGCCTTCTCCCCACCATCCCGTGGGGACTCTCGGGATTTAAGCACTCGTCTCTGTG
GGAGGCCCAGACCCACTCCATTTATAGGCACATCTCCTTCATTTCTAGGTCACTGCCCTTTGTTTACAGCTC

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FIGURE 2004B

CTGCCTCCTCCCTTGACCACAGCCTGGTTTACAAATTCCATCAGCTCCCAGCCCCACCTGCCAAAGTCCCAGGTT
TACAAGCCACGCTTACTTGCTGTGTCTGCGTGGAATTCTCTCCTCTGTCCCCTCCAGTCTCCTCATTGGAGTGAC
CTGAAGGTGTGGCTTCCCTCCACTTTTTCTCAGTATTACTTTGCCTTAGTTTTCCCCAAGAGGGAAGGCTGGAAC
CTTAACCTCTGTACCCCTTGATAGTTATTTAATTCTGTTTCTCCTAGTGGTTCACAATTGAACTGAATTGAGATGG
TGTCGGGTGGCTAAGGAGACACCTCACCTCTCCTTCCCCATTGTGCCGCCTTTATCAATTGCCTGTTTGTGTTTG
TTTGTTTTTTAACTTTCCATAATAAAATGGAGTTCTCTTC

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FIGURE 2005

MATIPDWKLQLLARRRQEEASVRGREKAERERLSQMPAWKRGLLERRRAKLGLSPGEPSPVLGTVEAGPPDPDES
AVLLEAIGPVHQNRFIRQERQQQQQQQRSEELLAERKPGPLEARERRPSPGEMRDQSPKGRESREERLSPRETR
ERRLGIGGAQELSLRPLEARDWRQSPGEVGD RSSRLSEAWKWRLSPGETPERSLRLAESREQSPRRKEVESRLSP
GESAYQKLGLTEAHKWRPDSRESQEQSLVQLEATEWRLRSGEERQDYSEECGRKEEWPVPGVAPKETAESETLT
REAQGNSSAGVEAAEQRPVEDGERGMKPTEGWKWTLSNGKAREWTPRDIEAQTQKLEPPESA EKLLESFGVEAGE
GEAEKEEAGAQRPLRALQNCCSVPSPLPPEDAGTGGLRQEEEEAVELOPPPPAPLSPPPPAPTAPQPPGDPLMS
RLFYGVKAGPGVGAPRRSGHTFTVNPRRSVPPATPATPTSPATVDAAVPGAGKKRYPTAEIILVLGGYLRLSRSC
LAKGSPERHHKQLKISFSETALETYYQYPSESSVLEELGPEPEVPSAPNPPAAQPDDEEDEEELLLLQPELOGGL
RTKALIVDESCRR

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FIGURE 2006A

AGGTTTGAATTTTCTCGGAGAAAGACAGGCCGGCCACGAGGAAAACAGAAACAAGCCGCAGCAACATCTAAGCCC
TTGAAAGGATCCTGAGAGAGGGGGGAAAGGGAAAACAGCAGCCACCAGCCCAACCACTTGTGTCTTCTGCCCCCTT
CCCACCTATCTTGCCCAACCCACAGCCACGCTGCTTGGGACTTGAAATCTGTGGCCGAAGGACCGTCACTACA
TAACCTCAAAAATAATCAACCACCCCTCCCTTCCCAAACCCCAAAATTCATCATCCAGCGTTTACTTTTTTGAA
TCCACTCAGAACTTTTTTCTGCGACCCCCCTCCCTAAATGGAGTTGGGTGGGGGGGAAATGAATACTGAGTTGGC
CTTTATTTTTTAAAAGACTTTTTGATCCAATGAGGCCCCCTAAATAATTGAGTTTGGGTCTGGTTGGTTGTTT
TATTTTTTTTCTCCAAAATTTTACCCCTCCCCCTGAGCCCGAGGTGCTGACGTGCGAAAAAATTGGATAAA
ACCACCATCATGGGTTCCGGTCCCATAGACCCCAAAGAATTCTCAAGGGCCTGGACAGCTTCCTTAACCGAGAT
GGGGAAGTCAAAAAGTGTGGATGGGATTTCCAAGATCTTCAGTTTGATGAAGGAAGCAGGAAAGATGGTGAGTCGA
TGCATTACTTGAACATTCTCCTGCAGACCCGTTACCAGAAAATATTGGTCAAATTTATTGACGTTGGCGGCTAC
AAACTTCTTAACAATTGGCTGACGTATTCAAAGACAACCAACATTCCCTCCTCCAGCAAATTTACTGACC
CTGCAGCATCTACCGCTCACTGTAGACCATCTCAAGCAGAACACACAGCTAAACTGGTGAAGCAGCTGAGCAAG
TCAAGTGAGGATGAAGAGCTCCGGAAATTGGCCTCAGTCCTTGTCAGCGACTGGATGGCTGTCTCCGCTCTCAG
AGCAGTACCCAGCCTGCTGAGAAAGATAAGAAGAAACGTAAAGATGAAGGAAAAAGTCGAATACCTTCTTGAG
CGACCTTTGACAGAGGTGAAGGTGAGACCCGGGCTGAGGAGGCCCCAGAGAAGAAGAGGGGAGAAGCCCAAGTCT
CTTCGCACCACAGCACCCAGTCATGCCAAGTCCGTTCCACTGGACTAGAGCTGGAGACACCATCCTTGGTGCCT
GTGAAGAAGAATGCCAGCACAGTGGTGGTTTCTGACAAGTACAACCTTAAACCCATCCCTTCAAACGTGAGAGC
AACGTAGCTGCTCCAGGAGATGCCACTCCCTTCGAGAGAAGAAATACAAGCCACTCAACACAACACCTAATGCC
ACCAAAGAGATCAAAGTGAAGATCATCCCGCCACAGCCTATGGAGGGCCTGGGCTTCTGGATGCTCTAATTCA
GCCCCGTGTCCAGGCATCAAAATTAAGAAGAAAAAAGTACTGTCACCTACGGCTGCCAAGCCAAGCCCCCTT
GAAGGGAAAAACGAGCACAGAACCAAGCACAGCCAAACCTTCTTCCCAGAACCAGCACCACTTCTGAGCAATG
GACGCAGACCGTCCAGGCACCCCGGTTCCCTCTGTTGAAGTCCCGGAGCTCATGGATACAGCCTCTTTGGAGCCA
GGAGCTCTGGATGCCAAGCCAGTGGAGAGTCTTGAGATCCTAACCAACTGACCCGGAAGGCAGGAAGAGGAAA
AGTGTGACATGGCCTGAGGAAGGCAACTGAGAGAATATTTCTATTTGAATTGGATGAACTGAACGAGTAAAT
GTGAATAAGATCAAGGACTTTGGTGAGGCCGCTAAGCGAGAGATACTGTGACAGCCACATGCATTTGAGACAGCG
CGGCGTCTGAGCCATGATAACATGGAGGAGAAGGTGCCCTGGGTGTGCCCCCGGCCCTGGTTCTGCCCTCACCT
CTTGTACCCCTGGAAGCAATAGTCAGGAGCGATATATCCAGGCTGAGCGGGAGAAGGGAATCCTTCAGGAGCTC
TTCCTGAACAAGGAGAGTCTCATGAGCCTGATCCTGAGCCCTACGAGCCCATAACCCCTAAACTCATCCCCCTA
GATGAGGAGTGTTCATGGATGAGACTCCGTATGTTGAGACTCTGGAACCTGGGGGGTCAAGTGGCTCACCTGAT
GGGGCAGGAGGCTCCAAGTTGCCCTCAGTTCTGGCCAATCTTATGGGAAGCATGGGTGCTGGAAAGGGCCCCCAA
GGCCCTGGAGGAGGAGGCATTAATGTCCAAGAGATCCTCACCTCCATCATGGGTAGCCCAAACAGTCATCTTCA
GAGGAATACTGAAACAACCAGACTATTCCGACAAGATCAAGCAGATGCTGGTGCCACATGGACTCCTAGGCCCT
GGCCCAATAGCCAATGGTTTCCCAACAGGGGGTCTGGGGGCCCAAGGGCATGCAGCACTTTCCCCCTGGACCT
GGGGGACCTATGCCAGGTCCCATGAGGCCCTGGTGGGCCAGTGGGTCCACGTCTTCTGGGTCTCCACCCCT
CCCCGGGGAGGTGATCCCTTCTGGGATGGCCCGGGCGACCCCTATGCGGGGTGGCCCAATGCGGGGGGTCCAGGA
CCAGGTCTGGACCATAACCATAGAGCCGAGGTGGCCGAGGAGGAAACGAACCTCCTCCTCCTCCTCCTCCTCCTC
CGAGGCGCCAGAGGAGGTGCTCTGGAGGAGGACCCCAATGGACGAGGGGGCCCTGGTGGGGGCATGGTTGGA
GGTGGTGGGCATCGTCTCACGAAGGCCCTGGTGGGGGCATGGGCAACAGCAGTGGACATCGTCCCCACGAAGGC
CCTGGCGGTGGCATGGGAAGTGGGCATCGCCCCCATGAAGGCCCTGGTGGTAGCATGGGTGGGGGTGGAGGACAT
CGTCCCCACGAAGGCCCTGGCGGTGGCATCAGTGGTGGCAGTGGCCATCGTCCCCATGAAGGCCCTGGCGGAGGA
ATGGGTGCCGTTGGTGGACATCGCCCCACGAAGGCCCTGGCGGAAGCATGGGTGGAAGTGGTGGACATCGTCCC
CATGAAGGCCCTGGACACGGGGGGCCCATGGCCACCGGCCTCATGATGTCCCTGGTACCGAGGCCATGACCAT
CGAGGGCCGCCACCTCATGAGCACCGTGGCCATGATGGTCTGGCCACGGGGGAGGGGGCCACCGAGGGCACGAT
GGAGGCCACAGCCATGGAGGAGACATGTCAAACCGCCCTGTCTGCCGACATTTTATGATGAAGGGCAACTGCCGC
TATGAGAAACACTGTGCCTTCTACCACCGGGTGTCAATGGGCCCCCTGCCCTAGGGACCATTTGCCTGCCCT
GTTACACAACCCCTGTGACTGCAGCTCGCTCTTTCCACCTGTTATGGCTTCTGTGAGGCCCATTTTCCCTT
TTCCCCAGCTGATGAGGAGCCGGCCCCCTCAGTTCCCACTTGCTTGGGTTCCTGGGGTTTTTCTGATCACTGGTG
CGCATTGATGTACATATTTTCTCCAGTCTGGGGAGGAGAGACTGGAAACGTTCTGGACTGCTGAAGAGGAG

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FIGURE 2006B

ACCCAGTTGGCTTCACTTTTTGAGAAGATTGCGCCTGTACCCCAAACCCCTTTCCAGTATTACCCTTAATGCTTG
AGAACCTAAAGCTGGTTATCCTGGCGAACACCCCTACCCTTCTATTGCGGGTCCCCACATGCACACAGAACTCTG
ACACAGGATCAGCTGCACTTAAGAAATCATCCCACTAAGTTCATTATTCTCATGGGGTGGGGAGATGCTGAAA
GGGGTATTGTATATCCCACTGCACTGAGAGGGCTCAATCAGCTGGATTGAGTTCTGGAACACACATCATCCCA
CCCCCCCCAGCGTGGGCTCACCATTCTTAGTCCTTTCTCAAGTGGGACCTTCACTTTCTGTGAACACCCAGT
CTGCGTCCTGGGTCTGCTAGGTTTCGATGATGGCGAACTCGTATCTGCATCCGGTGCAAGTTTTAGCTGGCAGAGG
TGAGACCGGTGGTGTGGTCTGCCTTTGCCAACTATAGCCAGTCTGGAGACTTGATAAAATACTTCAGTGAGACC
AGCTTCTCATCAACTTGGGCCCCGCGTGCTGGGCCTGAAAGTCACACTACATGCACTGCCTTTGGGAGTCAGCTC
ACTCCCTGCTCCCACTGGAACCTTGCCAGCGTGAAAGGAGGCTTCCAGGTACTTCACCCTGTCAACCACCTCTGA
ATCCCCACCAGGCGCCTTCCTGGGTGGATTCAACAAGATGATTTTGCCCTTTCCAGTCTCTCCTTCACCTTGG
CATCAGTTGTTTTCTATGAAAACAGTGGATTGGTTGGGTTTTGTGCAGGGTCTTGGGTTAGAGCCAAAATGGATT
TGAGGATGAGTATTTTTTTTTTTTGGTTTTGTATATTTGTACATTAATAATAAACAGTGGAAAGAGAAGCAGCTT

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FIGURE 2007

AACCCAAGCGGGACAAGGACTTTTGGGGGGAGGTCAAAGGGCACGAAGTTGTGCCTACAGCTGTTACCATAGTAA
CCGAGGACCGGATGTGGCGATCTTGGCGGTGCGACAGTCCTTCTCAGGCCCTCTGGCCCCGAGAGCCTGTTGAC
TCTGTGACACACTCTGAGGAGCTGGTTGTGGTGTTCAGCGAGGGAAGAAAAGAGTAATTTTTTCAAAGCATT
TATAGAAACGCAGCAAAGGGAAGGTGTGAGGTTGCCGCCATGCTTGGCAGAACGGAGGGAGGCAGTTGGCTCCGG
AATGCGGCCGCCGAGATGTTCTCCGCAACCTTCCGGAAGTGGAAATGGCGGGAGCCTCAGCATTGCTGCCACCG
ACCCCCCGAAGCGGAAACAGAATCCCCGCGTGCCCTTCTCACTACCCTCCAAATCCCGCTGCAGCCATTGCC
GCAGACACGATGCCGAAACGAAAGAAGCAGAATCATCACCAGCCACCGACACAGCAGAGCCCCGCTGCCCGAG
CGGGAAGAGACTGGAGATGAGGAGGATGGGAGTCCCATCGGACCACCCAGCCTTCTGGGCCCTCCCCCATGGCC
AATGGAAAACCTGGCGACCCTAAGTCAGCTCTTCACAGAGGTCTCCAGGATCAAGGGGACCACTGATTCCACCA
CTGCTGAGTCTCCACCTCCTCCTTGGGGTAGAGGCCAATTCCGGAGAGGGCTTGGCCCCAGGTCTAGCCCATAT
GGTCGTGGTTGGTGGGGAGTCAATGCAGAACCTCCTTTTCCGGGGCCAGGCCATGGGGTCCCACAGGGGAAGC
TTTCACAAGGAACAGAGAAACCTCGAAGGCTCAAAGCTGGTCTCTTATCAAGAATACCTGCCCGCCCAAGGAT
GACCCCCAGGTTATGGAAGACAAATCCGACCGCCTGTCTGCCGACATTTGCCAAAAGGGCCACTGTGCATAT
GAGGACCTCTGTGCCTTCTACCATCCAGGCGTCAATGGACCTCCTCTGAGAGCTGTGCCTTCCCATCCAGGCTG
GAAGGAGCTCTCTGTGACCTAGCGGCCATTTATTTCTCTGTAGCCCTATGATGGCTACTGTGAGGCTCTTCTAAC
ACCCTCAGTCAGTGACACACCCATCCCATCCACCACTTCCCCGCTGTGGGGTCCAGAGTGGTGTGCATCACTGG
TGCGCGGCATACGCGCTTTCTTCTGATCCAGCCTGTAGAGACTCGCCTTGGGACCCATCTTGCTTCCCTTCAG
TTGCCTCCTGGATCTTCTTTCCCGTCATCAAATGACTGCTGAACAGGAAACCTCTTTGGTGCTGTTTCTTGTGCA
TCTGTCCACCTGTTCCCAGTATTGCCCTCAATTCCTGAGAGCCCTGGAGCGGTTTCTTACCATTCCCTTCTTT
AGCTGCTTGTTTTAAAGTCCTTTTTATGTGACATTCCCTACCCCCAATGTTGTCAGCTGCTGTGAAACTCAGCCA
GGTTGTCTAACCTGGGGTCAAGTTTGGGTGACTGGTGCAGAGTTACTTCCTAAAAGGCCACTCTCCCTGCCTTG
GATTTCATAGTTTCTCTGTGCTAGCATGATCCCCACCGCTATGGTCTATCTATGATCACCCTGCTTTGTGAAC
TGTGCATCCCCTTGTAGCCTTTCTCAGTGTCCGTGGCATTTTTGTGACTTCCCAGCACTAGAATAAGTTTTCTG
CCAAAATGAGTGAGGCGCTTGGTGCCCTCTGGACTTTCCCACTTCCCAACATGGGAGAATTGTGAACTTCCATC
AGACTGCCTCCCIGGCCCTCCCCATTCTTCTCCTGTTGGTTATTCTGAGTCTGACACAGACCCATGACATGTCTT
ATAAAGCCTCCAATGGCTTTATCCTACCTAGATCCCTTCCAGCCCATTTTAATTAGACTATGTCATTGTGAGGCC
ACCAGTCCATTCAATTGAATTCTGTGAATCTCCACCTTGCCTATCTTTGGGTAGAAGCTGGACAGTACTGTTGCC
CTCTTCCAATCCTCTTCCCCTACATCCCTGGCACTGGTTGTTTTCTGTGAAAACAGCAGTGAACAGGTTCAGTTT
TGAAGTGGCCCTGAGGAAATGGGTGAGGAGTTGTATTGGCAAGAGGGAGGGGTGAGAGCTGTTGGAGAAGTGA
ATGAGGTTTTTTTTTTTTTTTTTCTTTTTTAACTTTTTTTATATTAGTAATAAATGCAGTGAAACCAGCATTTTTAT
TTAAAAA

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FIGURE 2008

MPGRTEGGSWLRNAAAADVLRNLPEVEWREPQHCCPPTPRKRKQNPVPLPHYPPNPAAAIAADTMPKRKKQNH
QPPTQQQPPLPEREETGDEEDGSPIGPPSLLGPPPMANGKPGDPKSALHRGPPGSRGPLIPLLSLPPPPWGRGP
IRRLGLPRSSPYGRGWGVNAEPPFPGPGHGGPTRGSFHKEQRNPRLKSWSLIKNTCPPKDDPQVMEDKSDRPV
CRHFAKKGHCRYEDLCAFYHPGVNGPPL

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FIGURE 2009

GGGAGCTCGGCGGAGGGCGGGCCAGGTGACTGGTCCGGGCCATGCCGAGGAAGAAGCCATTAGCGTGAAGCAGA
AGAAGAAGCAGTTGCAGGACAAACGGGAGCGGAAGAGAGGGCTTCAAGATGGGCTGCGCTCCAGTTCCAACAGCC
GCAGCGGGAGCCGGGAGCGGCGAGAGGAACAGACCGACACCTCGGACGGGGAGTCTGTGACCCATCATATCCGCA
GGCTTAACCAGCAGCCTTCTCAGGGGCTGGGTCCACGAGGCTACGACCCAAATCGATACCGACTGCATTTTGAGA
GAGACAGCAGGGAGGAGGTAGAGAGGAGAAAAGAGAGCAGCCCGGAGCAAGTTCTACAGCCGGTCAGTGCTGAGT
TGTTGGAGCTGGACATCCGGGAGGTGTATCAGCCTGGCTCAGTTCTGGACTTTCCTCGACGTCCTCCTTGGAGCT
ATGAGATGTCCAAGGAGCACTAATGAGCCAAGAGGAACGGAGCTTCCAAGACTATCTTGGGAAGATTGATGGG
CTTACTCCTCTGAGAACTCAGCTACTTTGAGCACAATCTGGAGACATGGAGGCAGCTGTGGCGGGTGTAGAGA
TGTCTGACATCGTCCTGCTTATCACTGATATCCGACATCCAGTTGTGAATTTCCCGCCAGCACTTTATGAGTATG
TGACTGGAGAAGTTGGACTGGCCCTGGTGTGTTTTGAACAAGGTGGATCTGGCCCCGCCAGCTCTTGTGGTTG
CCTGGAAGCATTATTTCCATCAACACTATCCCCAGCTCCACGTCTCTTTTACCTCTTTTCTCGGACCCCC
GCACCCACAGGATCCTAGTAGTGTCTTGAAGAAGAGTCGGAGGCGGGGGAGAGGATGGACTCGGGCCCTGGGGC
CAGAGCAGTTGCTGAGAGCCTGTGAAGCCATCACTGTGGGAAAGTGGACTTGAGCAGCTGGCGGGAGAAGATTG
CTCGGGATGTGGCTGGGGCCACCTGGGGTAATGGCTCTGGGGAGGAGGAGGAAGAGGAGGATGGCCCAGCAGTCC
TGGTGGAGCAGCAGACTGATTCAGCAATGGAGCCAAGTGGCCCAACCAAGAGCGCTACAAGGATGGGGTGGTGA
CCATCGGCTGTGTGGGTTTTCCCTAATGTGGGAAAGTCTCGCTGATCAATGGGCTGGTGGGGCGGAAAGTCGTGA
GTGTCTCCAGAACCCCGGGCCATACCCGATACTTTTCAGACCTACTTTCTTACCCCTCTGTGAAGCTCTGTGACT
GCCCAGGCCTCATCTTCCATCTCTTCTGCCTAGGCAGTTGCAGGTTCTGGCAGGGATCTACCCCTATCGCCCAGA
TCCAGGAGCCCTACACTGCTGTGGGCTACCTGGCCTCCCGAATTCCTGTCAGGCCCTGCTCCACCTGCGCCACC
CAGAGGCTGAGGACCCCTCAGCGGAACACCCCTGGTGTGCTGGGACATCTGTGAAGCCTGGGCAGAGAAAAGTG
GTTACAAGACAGCCAAGGCGGCTCGGAATGATGTGTACAGAGCAGCCAACAGTCTCTTGGCGCTGGCAGTGGACG
GCCGCTCAGCCTGTGTTTTTCATCCCCCAGGCTACAGTGAACAGAAAGGCACCTGGGAGTCCCATCCAGAGACCA
CGGAGCTGGTGGTTTTGTCAGGGCAGGGTGGGGCCAGCAGGTGACGAGGAGGAGGAGGAAGAGGAAGAGCTGAGCA
GCTCCTGTGAGGAGGAGGGAGAGGAGGACCGGGATGCGGATGAGGAGGAGGAAGGGGATGAGGAGACCCCAACCT
CGGCTCCAGGGTCCAGCCTGGCTGGCCGAAACCTTATGCCCTGCTGGGTGAGGATGAGTGTCTGAGTTCTCTGCC
CAGCGCCATCTTCCCTCCAGTATCTTTGCTTTTGGACTGACCTGGGGGTATCTCCCTCTGCCACCCCAATTGT
GAATAAAGATTGTTTGTCTTTGTAGCCCTTCCCCAGATGAAGTGAAGTGAGAGCGGCTGTTCCAGGCTAACAGCT
GTGGGAGGCTTCTCTCTCTTCTCCCTCTTTTTT

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FIGURE 2010

MPRKKPFSVKQKKQLQDKRERKRGLQDGLRSSNSRSGSRERREEQTDTSDGESVTHHIRRLNQPSQGLGPRG
YDPNRYRLHFERDSREEVERRKRAAREQVLQPVSAELLELDIREVYQPGSVLDFPRRPPWSYEMSKEQLMSQEER
SFQDYLGKIHGAYSSEKLSYFEHNLETWRQLWRVLEMSDIVLLITDIRHPVVFPPALYEYVTGELGLALVVLN
KVDLAPPALVVAWKHYFHQHPQLHVVLFTSFPRDPRTQDPSSVLKKSRRRGRGWTRALGPEQLLRACEAITVG
KVDLSSWREKIARDVAGATWNGSGEEEEEDGPAVLVEQQTDSAMEPTGPTQERYKDGVTIGCVGFNVGKSS
LINGLVGRKVSVSRTPGHTRYFQTYFLTPSVKLCDCPGLIFPSLLPRQLQVLAGIYPIAQIQEPYTAVGYLASR
IPVQALLHLRHPEAEDPSAHPWCAWDICEAWAEKRGYKTAKAARNVDYRAANSLLRLAVDGRLSLCFHPPGYSE
QKGTWESHPETTELVLQGRVGPAGDEEEEEEEELSSSCEEEGEEDRDADEEGEGDEETPTSAPGSSLAGRNPYA
LLGEDEC

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FIGURE 2011

GGGATCATGGTAGATGGAACCCCTCCTTTTACTCCTCTCGGAGGCCCTGGCCCTTACCCAGACCTGGGCGGGCTCC
CACTCCTTGAAGTATTTCCACACTTCCGTGTCCCGGCCCGGCCGCGGGAGCCCCGCTTCATCTCTGTGGGCTAC
GTGGACGACACCCAGTTCGTGCGCTTCGACAACGACGCCGCGAGTCCGAGGATGGTGCCGCGGGCGCCGTGGATG
GAGCAGGAGGGGTGAGAGTATTGGGACCGGGAGACACGGAGCGCCAGGGACACCGCACAGATTTTCCGAGTGAAC
CTGGGGACGCTGCGCGGCTACTACAATCAGAGCGAGGCCGGGTCTCACACCCTGCAGTGGATGCATGGCTGCGAG
GAGGACCTGCGCTCCTGGACCGCGGTGGACACGGCGGCTCAGATCTCCGAGCAAAAGTCAAATGATGCCTCTGAG
GCGGAGCACCAGAGAGCCTACCTGGAAGACACATGCGTGGAGTGGCTCCACAAATACCTGGAGAAGGGGAAGGAG
ACGCTGCTTCACCTGGAGCCCCCAAAGACACACGTGACTCACCACCCCATCTCTGACCATGAGGCCACCCTGAGG
TGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCAGGATGGGGAGGGCCATACCCAGGAC
ACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCAGCTGTGGTGGTGCCTTCTGGA
GAGGAGCAGAGATACACGTGCCATGTGCAGCATGAGGGGCTACCCGAGCCCGTCACCCTGAGATGGAAGCCGGCT
TCCCAGCCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGGATCTGTGGTCTCTGGAGCTGTG
GTTGCTGCTGTGATATGGAGGAAGAAGAGCTCAGGTGAAAAGGAGGGAGCTACTCTAAGGCTGAGTGGAGCGAC
AGTGCCAGGGGTCTGAGTCTCACAGCTTGTAAGCCTGAGACAGCTGCCTTGTGTGCGACTGAGATGCACAGCT
GCCTTGTGTGCGACTGAGATGCAGGATTTCCCTACGCCTCCCTATGTGTCTTAGGGGACTCTGGCTTCTCTTTT
TGCAAGGGCTCTGAATCTGTCTGTGTCCCTGTAGCACAAATGTGAGGAGGTAGAGAAACAGTCCACCTCTGTGT
CTACCATGACCCCCCTTCCCTCACACTGACCTGTGTTCCCTTCCCTGTTCTCTTTTCTATTAAAAATAAGAACCTGGG
CAGAGTGCGGCAGCTCATGCCTGTAATCCCAGCACTTAGGGAGGCCGAGGAGGGCAGATCACGAGGTCAGGAGAT
CGAAACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAAATACAAAAATTAGCTGGGCGCAGAGGCA
CGGGCCTGTAGTCCCAGCTACTCAGGAGGCGGAGGCAGGAGAATGGCGTCAACCCGGGAGGCGGAGGTTGCAGTG
AGCCAGGATTGTGCGACTGCACTCCAGCCTGGGTGACAGGGTGAAACGCCATCTCAAAAAATAAAAAATAAAAAA
TAAAAAAGAACC

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FIGURE 2012

MVDGILLLLLSEALALTQTWAGSHSLKYFHTSVSRPGRGEPRFISVGIVDDTQFVRFDNDAASPRMVPRAPWMEQ
EGSEYWDRETRSARDTAQIFRVNLRTLRGYYNQSEAGSHTLQWMHGCELGPDRRFLRGYEQFAYDGKDYLTINED
LRSWTAVDTAAQISEQKSNDASEAEHQRAYLEDTCVEWLHKYLEKGKETLLHLEPPKTHVTHHPISDHEATLRW
ALGFYPAEITLTWQQDGEGHTQDTELVEVTRPAGDGTFOKWAAVVVPSGEEQRYTCHVQHEGLPEPVTLRWKPASQ
PTIPIVGIIAGLVLLGSVVSGAVVAIVIWRKKSSGGKGSYSKAEWSDSAQGSESHSL

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FIGURE 2013

CCTGAGTCAGACGGGCATGGAGACGCTTCTGGAAGGAACACCGCAATGGCTGCGCAGGGACAGCCCCAGGTCCAG
TTCAAACCTTGATTGGTTGGTGATGGTGGTACTGGAAAAACGACTTTCGTGAAACATCATTGACTGGTGAAATTT
GAGAAGAAGTATGTAGCCACCTTGGGTGTTGAGGTTTCATCCCTAGTGTTCCATACCAACAGAGGACCTGTTAAG
TTCAATGTATGGGACACAGCCGGCCTGGAGAAATTCAGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGAGT
ACCATCATAGTGTTTTGATGTAAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTATGA
GTGTGTGAAAACACCCCCACTGTGTTGAGTGGCAACAAAGTGGATATTAAAGGACAGGAAAGTGAAGGCGAAATCC
ATTGTCTTCCACCGAAAGAAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTATAACTTTGAAAAGCCC
TTCCCTCTGGCTTGCTAGGAAGCTCATTGGAGACCCCTAACTTGGAAATTTGTTGCCATGCCTGCTCTCGCCCCACCA
GAAGTTGTTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAACCTGCTCTCCCG
GACGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCTGT
GATGTCAGTTGTGCAGCGTGTGTGCCACCTCATTATTATCTAGCTAAGCGGAACATGTGCTTCATCTGTGGGATG
CTGAAGGAGATGAGTGGGCTTCGCAGTGAATGTGGCAGTTCAAAAAATACCTTCATTGTTTGGACCTGCATATTT
AGCTGTTTTGGAACACAGTTGATTCCCTTGAGTTTCAAATATAGACTGCTACAGTCACATCACAATATTACGCGGT
GAAATCTTGTGTTTGTACTGTCATTCCCATTCCTTTTCGTTTAGAATCAGAATAAAGTTGTATTTCAAATATCTAA

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FIGURE 2014

MAAQGPQVQFKLVLVGDGGTGKTTFVKHHLTGEFEKKYVATLGVEVHPLVFHTNRGPVKFNVWDTAGLEKFSGL
RDGYIIQAQSTIIIVFDVTSRVITYKNVPNWHRLVEVCENTPTVLSGNKVDIKDRKVKAKSIVFHRKKNLQYYDIS
AKSNYNFEKPFLLWARKLIGDPNLEFVAMPALAPPEVVM DPALAAQYEHDLVAQTALPDEDDDL

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FIGURE 2015

GGAGACGCTTCTGGAAGGAACACCGCAATGGCTGCGCAGGGACAGCCCCAGGTCCAGTTCAAACCTGTATTGGTT
GGTGATGGTGGTACTGGAAAAACGACTTTCGTGAAACATCATTGACTGGTGAATTTGAGAAGAAGTATGTAGCC
ACCTTGGGTGTTGAGGTTTCATCCCCTAGTGTTCATACCAACAGAGGACCTGTTAAGTTCAATGTATGGGACACA
GCCGGCCTGGAGAAATTCAGTGGACTGAGAGATGGCTATTATATCCAAGCCCAGAGTACCATCATAGTGTGTTGAT
GTAACATCGAGAGTTACTTACAAGAATGTGCCTAACTGGCATAGAGATCTGGTATGAGTGTGTGAAAACACCCCC
ACTGTGTTGAGTGGCAACAAAGTGGATATTAAGGACAGGAAAGTGAAGGCGAAATCCATTGCTTCCACCGAAAG
AAGAATCTTCAGTACTACGACATTTCTGCCAAAAGTAACTATAACTTTGTTGTTGCCATGCCTGCTCTCGCCCCA
CCAGAAGTTGTCATGGACCCAGCTTTGGCAGCACAGTATGAGCACGACTTAGAGGTTGCTCAGACAACCTGCTCTC
CCGGACGAGGATGATGACCTGTGAGAATGAAGCTGGAGCCCAGCGTCAGAAGTCTAGTTTTATAGGCAGCTGTCC
TGTGA

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FIGURE 2016

CCCCAGACGCCGAGGATGGCCGTCATGGCGCCCCGAACCCTCCTCCTGCTACTCTCGGGGGCCCTGGCCCTGACC
CAGACCTGGGCGGGCTCCCACTCCATGAGGTATTTCTTCACATCCGTGTCCCGGCCCGGGGAGCCCCGC
TTCATCGCCGTGGGCTACGTGGACGACACGCAGTTCGTGCGGTTGACAGCGACGCCGCGAGCCAGAGGATGGAG
CCGCGGGCGCCGTGGATAGAGCAGGAGGGGCCGGAGTATTGGGACCAGGAGACACGGAATGTGAAGGCCAGTCA
CAGACTGACCGAGTGGACCTGGGGACCCTGCGCGGCTACTACAACCAGAGCGAGGCCGTTCTCACACCATCCAG
ATAATGTATGGCTGCGACGTGGGGTCGGACGGGCGCTTCCTCCGCGGGTACCGGCAGGACGCCTACGACGGCAAG
GATTACATCGCCCTGAACGAGGACCTGCGCTCTTGACCGCGGCGGACATGGCGGCTCAGATCACCAAGCGCAAG
TGGGAGGCGGCCCATGAGGCGGAGCAGTTGAGAGCCTACCTGGATGGCACGTGCGTGGAGTGGCTCCGCAGATAC
CTGGAGAACGGGAAGGAGACGCTGCAGCGCACGGACCCCCCAAGACACATATGACCCACCACCCCATCTCTGAC
CATGAGGCCACCCTGAGGTGCTGGGCCCTGGGCTTCTACCCTGCGGAGATCACACTGACCTGGCAGCGGGATGGG
GAGGACCAGACCCAGGACACGGAGCTCGTGGAGACCAGGCCTGCAGGGGATGGAACCTCCAGAAGTGGGCGGCT
GTGGTGGTGCCCTTCTGGAGAGGAGCAGAGATACACCTGCCATGTGCAGCATGAGGGTCTGCCCCAAGCCCTCACC
CTGAGATGGGAGCTGTCTTCCAGCCACCATCCCCATCGTGGGCATCATTGCTGGCCTGGTTCTCCTTGAGCT
GTGATCACTGGAGCTGTGGTCGCTGCCGTGATGTGGAGGAGGAAGAGCTCAGATAGAAAAGGAGGGAGTTACACT
CAGGCTGCAAGCAGTGACAGTGCCCAGGGCTCTGATGTGTCCCTCACAGCTTGTAAGTGTGAGACAGCTGCCTT
GTGTGGGACTGAGAGGCAAGAGTTGTTCTGCCCTTCCCTTTGTGACTGAAGAACCCTGACTTTGTTTCTGCAA
AGGCACCTGCATGTGTCTGTGTTTCGTGTAGGCATAATGTGAGGAGGTGGGAGACCACCCACCCCATGTCCAC
CATGACCCTCTTCCACGCTGACCTGTGCTCCCTCCCAATCATCTTCTCCTGTTCCAGAGAGGTGGGGCTGAGGT
GTCTCCATCTCTGTCTCAACTTCATGGTGCAGTGAAGTCTTCTCCTTCCCTATTAAAATTAGAACCTTAG
TATAAATTTACTTTCTCAAATTCCTGCCATGAGAGGTTGATGAGTTAATTAAAGGAGAAGATTCCCTAAAATTTGA
GAGACAAAATAAATGGAAGACATGAGAAC

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FIGURE 2017

ATGGCGCCCCGAAGCCTCCTCCTGCTGCTCTCAGGGGCCCTGGCCCTGACCGATACTTGGGCGGGCTCCCACTCC
TTGAGGTATTTACAGCACCGCTGTGTCTCGCGGCCCGGCCGCGGGGAGCCCCGCTACATCGCCGTGGAGTACGTAGAC
GACACGCAATTCCTGCGGTTTCGACAGCGACGCCGCGATTCCGAGGATGGAGCCGCGGGAGCCGTGGGTGGAGCAA
GAGGGGCCCGCAGTATTGGGAGTGGACCACAGGGTACGCCAAGGCCAACGCACAGACTGACCGAGTGGCCCTGAGG
AACCTGCTCCGCCGCTACAACCAGAGCGAGGCTGGGTCTCACACCCTCCAGGGAATGAATGGCTGCGACATGGGG
CCCGACGGACGCCTCCTCCGCGGGTATCACCAGCACGCGTACGACGGCAAGGATTACATCTCCCTGAACGAGGAC
CTGCGCTCCTGGACCGCGGCGGACACCGTGGCTCAGATCACCCAGCGCTTCTATGAGGCAGAGGAATATGCAGAG
GAGTTCAGGACCTACCTGGAGGGCGAGTGCCTGGAGTTGCTCCGCAGATACTTGGAGAATGGGAAGGAGACGCTA
CAGCGCGCAGATCCTCCAAAGGCACACGTTGCCACCACCCCATCTCTGACCATGAGGCCACCCTGAGGTGCTGG
GCCCTGGGCTTCTACCCTGCGGAGATCACGCTGACCTGGCAGCGGGATGGGGAGGAACAGACCCAGGACACAGAG
CTTGTGGAGACCAGGCCTGCAGGGGATGGAACCTTCCAGAAGTGGGCCGCTGTGGTGGTGCCTTCTGGAGAGGAA
CAGAGATACACATGCCATGTGCAGCACGAGGGGCTGCCCCAGCCCCTCATCCTGAGATGGGAGCAGTCTCCCCAG
CCCACCATCCCCATCGTGGGCATCGTTGCTGGCCTTGTTGTCTTGGAGCTGTGGTCACTGGAGCTGTGGTTCGCT
GCTGTGATGTGGAGGAAGAAGAGCTCAGATAGAAACAGAGGGAGCTACTCTCAGGCTGCAGTCACTGACAGTGCC
CAGGGCTCTGGGGTGTCTCTCACAGCTAATAAAGTGTGAGACAGCTTCCTTGTGTGGGACTGAGAAGCAAGATAT
CAATGTAGCAGAATTGCACTTGTGCCTCACGAACATACATAAATTTTAAAAATAAAGAATAAA

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FIGURE 2018

MAPRSLLLLLSGALALTDTWAGSHSLRYFSTAVSRPGRGEPRIAVEYVDDTQFLRFDSDAaiprMEPREPWVEQ
EGPQYWEWTTGYAKANAQTDRVALRNLLRRYNQSEAGSHTLQGMNGCDMGPDGRLLRGYHQHAYDGKDYISLNED
LRSWTAADTVAQITQRFYEAEEYAEEFRYLEGECLELLRRYLENGKETLQRADPPKAHVAAHPISDHEATLRCW
ALGFYPAEITLTWQRDGEEQTQDELVELTRPAGDGTQKWAAVVVP SGEEQRYTCHVQHEGLPQPLILRWEQSPQ
PTIPIVGIVAGLVVLGAVVTGAVVAAMWRKKSSDRNRGSYSQAAVTDSAQGSVSLTANKV

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FIGURE 2019

GAGAGCACGACGTGCGCGCACCCCTCTCCCCCTTGTCCACTGCTGCCGCCTCCTTCTTCTGCCGCTCCTGGTGCTGC
TTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGACTCCGGCGCTCGCCATG
GCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGAAGGTGGCGGGGCAGGAT
GGTTCTGTGGTGCAGTTTAAGATTAAAGAGGCATACACCACTTAGTAAACTAATGAAAGCCTATTGTGAACGACAG
GGATTGTCAATGAGGCAGATCAGATTCCGATTTCGACGGGCAACCAATGAAACAGACACACCTGCACAGTTGGAAA
TGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAAAGGGAACTGCTTCTTT
ACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGAAAACCTGCAATTTGCTTCCACCACATCC
TGACTACTACCGTATAGTTTTCTCTATTCTTTTCATTTCCCCCTTCCCCATTCTTTACTGTACATAAAGTAACTG
GTATATGTGCACAAGCATATTACTTTTTTTTTTTAAACTAAACAGCCAATGGTATGTTTTGATTGACATCAAGT
GGAGACGGGGCGGAAAAATACTGATTCTGTGAAAATACCCCTTTCTCCATTAGTGGCATGCTCATTAGCTCTT
ATCTTTATATTCCAGTAAGTTATTTTGCTCTCACTGTTTTAACAACAACAACAAAAACAACAACATAAAAAATC
CTTGCATACCTTGTTCAATTGGAGAATTTAATGTTTTTCATTTATCATTGTAAACCAAGGACAATTTTATAAC
TTTTTGTACTTAGCTGTTACATGCAGAGCAATCTGTCTTTAAGTAGGGATAAATTACTCTAAAAACAAAAAGAA
TCCTAGATAGTTTTCCCTTCAAGTCAAGCGTCTTGTTGTTTAAATAAACTTCTTGTTTAAAA

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FIGURE 2020

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLHSW
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSIRKLQFASTTS

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FIGURE 2021

GCCGCTCCTGGTGCTGCTTGTGTGCTCGTTTGGAGCGGACCTGGTACCTCTTTTGTGAAGCGGCAGCTGAGGAGA
CTCCGGCGCTCGCCATGGCCGAAGAAAAGCCCAAGGAAGGAGTCAAGACTGAGAACAACGATCATATTAATTTGA
AGGTGGCGGGGCAGGATGGTTCTGTGGTGCAGTTTAAGATTAAGAGGCATACACCACTTAGTAACTAATGAAAG
CCTATTGTGAACGACAGGGATTGTCAATGAGGCAGATCAGATTCCGATTCCGACGGGCAACCAATGAAACAGACAC
ACCTGCACAGTTGGAAATGGAGGATGAAGATACAATTGATGTGTTCCAACAGCAGACGGGAGGTGTCTACTGAAA
AGGGAACCTGCTTCTTTACTCCAGAACTCTGTTCTTTAAAGACCAAGATTACATTCTCAATTAGTCTTTCATTTC
CCCCTTCCCCATTCTTTACTGTACATAAAGTAAGTGGTATATGTGCACAAGCATATT

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FIGURE 2022

MAEEKPKEGVKTENNDHINLKVAGQDGSVVQFKIKRHTPLSKLMKAYCERQGLSMRQIRFRFDGQPMKQTHLHSW
KWRMKIQLMCSNSRREVSTEGTCFFTPELCSLTKITFSISLSFPPSPFLYCT

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FIGURE 2023

ATGAAGGCCAACTACAGCGCAGAGGAGCGCTTTCTCCTGCTGGGTTTCTCCGACTGGCCTTCCCTGCAGCCGGTC
CTCTTCGCCCTTGTCCTCCTGTGCTACCTCCTGACCTTGACGGGCAACTCGGCGCTGGTGCTGCTGGCGGTGCGC
GACCCGCGCCTGCACACGCCCATGTACTACTTCCTCTGCCACCTGGCCTTGGTAGACGCGGGCTTCACTACTAGC
GTGGTGCCGCCGCTGCTGGCCAACTGCGCGGACCAGCGCTCTGGCTGCCGCGCAGCCACTGCACGGCCCAGCTG
TGCGCATCGCTGGCTCTGGGTTCCGCCGAATGCGTCCTCCTGGCGGTGATGGCTCTGGACCGCGCGGCCGAGTG
TGCCGCCCGCTGCGCTATGCGGGGCTCGTCTCCCGCGCCTATGTGCGACGCTGGCCAGCGCCTCCTGGCTAAGT
GGCCTCACCAACTCGGTTGCGCAAACCGCGCTCCTGGCTGAGCGGCGGCTGTGCGCGCCCCGCGCTGCTGGACCAC
TTCATCTGTGAGCTGCCGGCGTTGCTCAAGCTGGCCTGCGGAGGCGACGGAGACACTACCGAGAACCAGATGTTG
GCCGCCCGCGTGGTCATCCTGCTGCTGCCGTTTGCCGTATCCTGGCCTCCTACGGTGCCGTGGCCCCGAGCTGTC
TGTTGCATGCGGTTTACGCGGAGGCCGAGGAGGGCGGTGGGCACGTGTGGGTCCCACCTGACAGCCGTCTGCCTG
TTCTACGGCTCGGCCATCTACACCTACCTGCAGCCCGCGCAGCGCTACAACCAGGCACGGGGCAAGTTCGTATCG
CTCTTCTACACCGTGGTCACACCTGCTCTCAACCCGCTCATCTACACCCTCAGGAATAAGAAAGTGAAGGGGGCA
GCGAGGAGGCTGCTGCGGAGTCTGGGGAGAGGCCAGGCTGGGCAGTGA

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FIGURE 2024

MEGTQEYDSSMQTVRFQGERRKSPSNATFSPFFWMPHSAKSLVADAGIHSRNQHSYAIASF IKYSQLHFKSRESR
AGARDQPIIWKLKANYSAEERFLLLGFSWPSLQPVLFALVLLCYLLTLTGNSALVLLAVRDPRLHTPMYYFLCH
LALVDAGFTTSVVPPLLNLRGPALWLPRSHCTAQLCASLALGSAECVLLAVMALDRAAAVCRPLRYAGLVSPRL
CRTLASASWLSGLTNSVAQTALLAERPLCAPRLLDHFICELPALLKLACGGDGD TENQMFAARVVILLLPFAVI
LASYGAVARAVCCMRFSGGRRRAVGTCGSHLTAVCLFYGSAIYTYLQPAQRYNQARGKFVSLFYTVVTPALNPLI
YTLRNKKVKGAARRLLRSLGRGQAGQ

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FIGURE 2025

ATGGGGAGAAGGTATGTGAGGAAGGAAAGAAAAAGGCCAGCAGGTGAAGAAAAAGAAGAAGGTCTGGTGAGGACA
ATGGAGACGGCCAATCGTTCCTTAAACGGTCTCCTCCTCCTGGTTCCTCTCTCCAAGATGGCAAGGGAGCCTGC
AAATTCGGTCTCCAAGGATCCCTCTGCCCAGAGCAACGAACCTCCCTTTGGCAATATAGGAATAATCTTCATTCTC
CCTGCAATTGTGCACATTAAATAGGCTGTTAATGAAAGTACAGTGTGGAGCTCATTATTGCGAACAGCAGCCCTT
AGAGATCGTAGCTGGCTGGTAAAGGCGGCTTTAGAGCGGACGCCCAGGCTTCTTCATCAGCTTACCAGAAGGTTG
GAGGCAGAAGACCTCCCATTTGCAGATTCACTCATTCTCCGCTTATGCTTCCGTTCTTTGAAAGTGAACCACTA
GGTTTCAGAAAGCACCAGGCAGTTAAACAGAGTTTACTCCCTCGGTCACTGCACTAGAAATCAGGAGGCGAACA
CTGTACCTAAACATAAAACGACATTCTCAAAAAGTCCCTGCACAGGCTTGTGGGACTTCACGATCCTTCTTGG
ACCTGCATCCCCCTCTTCTCTGGTACTCGGACCAAAATCGAACAATCAAGCAACAAAGTTGGCCTTAAAATTGAG
GCCCCAGAGATGAGGTTACTGAGCGGGTATATGTACAGAGCCAACTTTCTGCAATGAATTGGAAAAGAACATC
AAGACAGAGGGAGGAGCGCTGGGGGTGAACACCGCCTTGACCTTTGTAACTGCTGCACAAATAAGGAGTGGTTG
CTGTGCCAGTTTTCCCTGAAGAGGTGCCTGACCAGCTGGCTCTGTGAATTGCAATACAGTTTTTCAGGCAGGCTCT
GGGAGAGTTTTGGGGAATCCCGAAAGACAGCCAGAGATGCTGGACTGCGAATGCAGGCGCGCTGCAGGCGAGGC
TGGGAGGGCCGCCAGGAGCGCTGCGGGTATCGGGAGACACGCAGAGGGAGGGGCAGGCGGCGGGCTCCGCTTCTT
CGCGTCTGGCTCTGAAAGCAACCACAGGCCAGCGGGCGGTGCTAGAAAAACACAACCTTCACGGAAGAGTTTT
GAAAAGATTTCCGGCAAGAAAATAATGTTACCAGAGACCGTTGAGGCCCCGCCAGCCTTCAAGATGGATGCCCTT
GCTGGCCGCAAAGTGGGTCTCATTGCTCCCCGCCGACTGGACGTCTCCGGGGAACGAAGACTGTGCAGGAGAAA
GAGAGCTAG

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FIGURE 2026

MGRRYVRKERKRPAGEEKEEGLVRTMETANRSLKRSPPPGSSSLQDGKGACKFGLQGSLCPEQRTPFNGNIGIIFIL
PAIVHINRLFNESTVWSSLLRTAALRDRSWLVKAALERTPRLLHQLTRRLEAEDLPFADSLISPLMLPFFESEPL
GFRKHQAVKTEFTPSVTALEIRRTLYLNIKRHSQKLPCTGLLGLHDPSTCIPLFSGTRTKIEQSSNKVGLKIE
APEMRLLSGYMSQSQTFCNELEKNIKTEGGALGVNTALTFTVCCTNKEWLLCQFSLKRCLTSWLCEFEYSFQAGS
GRVLGNPERQPRDAGLRMQARCRRGWEGRQERCYRETRRGRGRRRAPLLRVLALKATTGQRGGARKTQPSRKSF
EKISGKKIMLPETVEARPAFKMDAPAGRKVGLIAPRRTGRLRGTKTVQEKES

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FIGURE 2027

TACGGCCGTCGTGCCGCTCGTGTCAGTCAACATGGAGGCAGAGGAATCGGAGAAGGCCGCAACGGAGCAAGAGCC
GCTGGAAGGGACAGAACAGACACTAGATGCCGAGGAGGAGCAGGAGGAATCCGAAGAAGCGGCCTGTGGCAGCAA
GAAGCGGGTAGTGCCAGGTATTGTGTACCTGGGCCATATCCCGCCGCGCTTCCGGCCCCCTGCACGTCCGCAACCT
TCTCAGCGCCTATGGCGAGGTCGGACGCGCTCTTTTCAGGCTGAGGACCGGTTTCGTGAGACGCAAGAAGAAGGC
AGCAGCAGCTGCCGAGGAAAAAGCGGTCCTACACCAAGGACTACACCGAGGGATGGGTGGAGTTCCGTGACAA
GCGCATAGCCAAGCGCGTGGCGGCCAGTCTACACAACACGCCTATGGGTGCCCCGAGGCGCAGCCCCCTCCGTTA
TGATCTTTGGAACTCAAGTACTTGCACCGTTTCACTGGTCCACCTCAGCGAGCACCTCGCCTTTGAGCGCCA
GGTGCGCAGGCAGCGCTTGAGAGCGGAGTTGCTCAAGCCAAGCGTGAGACCGACTTCTATCTTCAAAGTGTGGA
ACGGGGACAACGCTTTCTTGCGGCCGATGGGGACCTGTCTGCCCCAGATGGCTCCTGGACATTGCCCAGCGTCC
TACTGAGCAGGAACTGAGGGCCCGTAAAGCAGCACGCCAGGGGACGTGAACGGGCTCGCCTGGCAACTGCCCA
GGACAAGGCCCGCTCCAACAAAGGGCTCCTGGCCAGGATCTTTGGAGCCCCGCCACCCTCAGAGAGCATGGAGGG
ACCTTCCCTTGTGAGGGACTCCTGAGGGCCTGGGTGGCCCCCTTCCATTTCCTGGCCCTGCTCTGCTTCTGTCTA
CCTCATACTAGAAATGATCGTGACTACCCGGGCAGACATTTTACTGTGTTTCTCAGACCAAGTGCTACTGATGGC
CCAAACATGGAGTTTTGTGGGCTTCCACTGTCCCCACTCCGAACCTCCTGTATGTGCCTGGCTGAGTCACCTAAT
CATACTGTCTACTAGCATAATTATGACTATTGCATATGCTTGTGTTTGTGACTCTTGCTGCCTACGTCTGTA
GGGTCCCTGAAAATCCCACTTCCCTGCCCCAGAAAGGGCCTTTATTTCCAAGTAGGAGGATAATGCCTAGTCCA
GGCAATCTTTCTCTGTTTAGCAGTCACAGGTGAGGGTGGTATTAGCATCTTTTTATGTAGAAAAAATTGAGTTA
ATGGGGTGGACTGGGTGGGAAGAAATACATTTCTAATGTATTTATAGAAAATAAAAAATATTTTATGTGCCTT
TTTATTTTTGTTGGTGGGGAGGTCATTGGACAAGTTCCAACCTTTCATCTTGTGTTCCCTTCACCTTCATATCCTG
ATCTTAGAGCCCCCTCCCCCTGCCACCCACCTTACTGTTTAACTGGATTTTTTTTTCTATTTAATTTTTGTCT
AATATCTTAGCCAGTTTATCAATCAGTTATCTTAAGTCAGCATTTTCTAAGCCATTGTTTGAGGAAACAGTGAC
AATAGGTAATAACACATCTTAGTATTAAGAGTTTTACAGGCCACTAGTATAAGATAGGCATCGTGGTAGATGCAT
ATAAAGGGTGAATGGGAGCCATGGCAGGTCATAGAGTCCTCTCAATGGGAACCTGATTGATGATCACAGTCTTC
AGTGGTGAGTCAGTCCTCACCAAGTTTTCCAGATCATTCTTACAAAGTAACTGGGAGAATAATAAGTCTGAAAG
AGTGTGGAGTGCTCCCACAATTACAAAGAATGCTTCTGGGTGGAGTGTTGAGTTGGAACCATTGTAAAGGTGGG
CAAAGCCTAGTAGAGAACCAGTGACCTCAGGTGCACCTACATATGGTGGGGCTGAGGCAAAGCAGCCCTGTAGG
CTTCAAAGAATCAGTGTAAGCCACTAAAAGGAACTGAAAACCTAGGTGTCACAATAAACAGTCTACACAGTCTCA
CGTAGACCAAAATCTGATCATTTTCCAGGCTGTTGCATGAAGTGATAGAGTATGATTATAATTTCTGTTTGCTT
GTGCTGTTTGTGTTTTGTTTTTCATCTGTCAATGTGATGATCTGTGTTTTATAGGTTAGAGTGATTGTCTACTT
TGGCTGTAAATACCCTAATCACATTATGATCTTGACAGGTGCACCTTACTGGGAGAATAAAAAGGACCATACG
GTAAA

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FIGURE 2028

MEAESEKAATEQEPLLEGTEQTLDAEEEQEESEEAACGSKKRVVPGIVYLGHIPPRFRPLHVRNLLSAYGEVGRV
FFQAEDRFVRRKKKAAAAAGGKKRSYTKDYTEGWVEFRDKRIAKRVAASLHNTPMGARRRSPFRYDLWNLKYLHR
FTWSHLSEHLAFERQVRRQLRAEVAQAKRETD FYLQSVERGQRFLAADGDPAREPDGSWTFAQRPTEQELRARKA
ARPGGRERARLATAQDKARSNKGLLARIFGAPPPSESMEGPSLVRDS

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FIGURE 2029

ATTGCTTTCTCTTTTTCTTTCTTCCGGATGAGAGGCTAAGCCATAATAGAAAGAATGGAGAATTATTGATTGA
CCGTCITTATTCTGTGGGCTCTGATTCTCCAATGGGAATACCAAGGGATGGTTTTCCATACTGGAACCCAAAGGT
AAAGACACTCAAGGACAGACATTTTTGGCAGAGCATAGATGAAAAATGGCAAGTTCCCTGGCTTTCTTCTGCTCA
ACTTTTCATGTCTCCCTCCTCTTGGTCCAGCTGCTCACTCCTTGCTCAGCTCAGTTTTCTGTGCTTGGACCCTCTG
GGCCCATCCTGGCCATGGTGGGTGAAGACGCTGATCTGCCCTGTCACCTGTTCCCGACCATGAGTGCAGAGACCA
TGGAGCTGAAGTGGGTAAAGTTCCAGCCTAAGGCAGGTGGTGAACGTGTATGCAGATGGAAAGGAAGTGAAGACA
GGCAGAGTGCACCGTATCGAGGGAGAAGTTCTGATTCTGCGGGATGGCATCACTGCAGGGAAGGCTGCTCTCCGAA
TACACAACGTCACAGCCTCTGACAGTGGAAAGTACTTGTGTTATTTCCAAGATGGTGACTTCTATGAAAAAGCCC
TGGTGGAGCTGAAGGTTGCAGCACTGGGTTCTAATCTTCACGTCGAAGTGAAGGGTTATGAGGATGGAGGGATCC
ATCTGGAGTGCAGGTCCACCGCTGGTACCCCAACCCCAAAATACAGTGGAGCAACGCCAAGGGAGAGAACATCC
CAGCTGTGGAAGCACCTGTGGTTGCAGATGGAGTGGGCCTATATGAAGTAGCAGCATCTGTGATCATGAGAGGCG
GCTCCGGGGAGGGTGTATCCTGCATCATCAGAAATTCCCTCCTCGGCCTGGAAAAGACAGCCAGCATTTCATCG
CAGACCCCTTCTTCAGGAGCGCCAGCCCTGGATCGCAGCCCTGGCAGGGACCCTGCCTATCTTGCTGCTGCTTC
TCGCCGGAGCCAGTTACTTCTTGTGGAGACAACAGAAGGAAATAACTGCTCTGTCCAGTGAGATAGAAAGTGAGC
AAGAGATGAAAGAAATGGGATATGCTGCAACAGAGCGGGAAATAAGCCTAAGAGAGAGCCTCCAGGAGGAACTCA
AGAGGAAAAAATCCAGTACTTGA¹CTCGTGGAGAGGAGTCTTCGTCCGATACCAATAAGTCAGCCTGATGCTCTAA
TGGAAAAATGGCCCTCTTCAAGCCTGGTGAGGAAATGCTTCAGATGAGGCTCCACCTTGTTAAATAAATTGGATG
TATGGAAAAATAGACTGCAGAAAAGGGGAAGTCAATTTAGCTCACGAGTGGTCGAGTGAAGATTGAAATTAACCT
CTGAGGGCCAGCACAGCAGCTCATGCCTGTAATCCTAGCACTTTGGAAGGCTGAGGAGGGCGGATCACAAGGTCA
GGAGATCAAGACCATCCTGGCTAACACGGTGAAACCCCGTCTCTACTAAAAATACAAAAATAAAAAATTAGCCG
GGCATGGTGACGGGCACCTGTAGTCCCAGCTACTCGGGAGGCTGAGGCAGGAGAATGGCATGAACCCGGAAGGCA
GAGCTTGAGTGAGCCGAGATCACGCCACTGCACTCCAGCCTGGGAGACAGAGCGAGACTCTGTCTCAAGAAAAA
AAAAAAAAAAAAAAAA

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FIGURE 2030

MKMASSLAFLLLNFHVSLLLVQLLTPCSAQFSVLGSPGILAMVGEDADLPCHLFPTMSAETMELKWVSSSLRQV
VNVYADGKEVEDRQSAPYRGRITSILRDGITAGKAALRIHNVTASDSGKYLCYFQDGFYEKALVELKVAALGSNL
HVEVKGYEDGGIHLECRSTGWYPQPIQWSNAKGENIPAVEAPVVADGVGLYEVAASVIMRGGSGEGVSCIIRNS
LLGLEKTASISIA DPFFRSAQPWIAALAGTLPILLLLLAGASYFLWRQQKEITALSSEIESEQEMKEMGYAATER
EISLRESLQEELKRKKSST

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FIGURE 2031

ATGGACAGGACTGTCATTTCAGAAATACCACTGTGAATGGCCACAGCTGTGAAGTTAGGAAAGCCCTGTCAAAG
CAAGAGATGGTTAGTGCTTCATCCAGCCAAAGAGGTCGAAGTGGTTCTGGAAACTTTGCTGGTGGTCTTAGAAGT
GGTTTCAGTGGAATAACAACCTTTGGTCGTGGAGGAACTTCCGTGGTCGTGGGGCCTTTGGTGGCAGCCGTGGT
GGTGGTGGATATGATGGCAGTGGGGATGGCTATAATGGATATGGCCCAGATAAACAGTCTCCACTTGTTCAGGAC
TTCAACGGAGATATTCCACTCAGTCCTGCTTATGCCAGACACCTTGACAGAGCCTCTCCCAAGATAGCTAGGACT
CAGGGAACATGCAGGCTGACACAAGCATTGATGATCTATATTAATGCAAGTGTAATATGGAATGGAGAATTTTTA
CAAATGGTGTTCATTACCAGCCATTAATGCCATAGCTTTAATTTGTTTCATTAAAGTTTAGCAGCCAGTTACCTAACA
GGTCATCAAAGGAGGGACACAGAAGAGGCAAGCACTGATAATGAAAGGTCTATATCACAGGTGTGCTCAGAAAAG
GCAAGCACAGATCACAGTTTCCAGGGCTGCCAGCAGAATGGATTTAATATTGCCACGTGGGAAGAAGAAAAGCC
ACAGGGTGCAGATATCAGGAATCTGAATTTCCGGGGCATAACGTGTGCACAGATGCAGCTTCAACAGATTTCATCA
TATCATCCCTTCAGAGCTGCTGTGACAGTTTACACCAGATTAACTCTCAGTTTCCAGAAAAGAGGAAACTCTG
GCCTAG

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FIGURE 2032

TTCCCCAGCATTGAGAACTCCTCTCTACTTTAGCACGGTCTCCAGACTCAGCCGAGAGACAGCAAACCTGCAGC
GCGGTGAGAGAGCGAGAGAGAGAGAGAGACTCTCCAGCCTGGGAACATACTCCTCTGCGAGAGGCGGAG
AACTCCTTCCCCAAATCTTTTGGGGACTTTTCTCTCTTTACCCACCTCCGCCCTGCGAGGAGTTGAGGGGGCCAG
TTGGCCGCCGCGCGCGCTTCTCCGTTTCGGCGTGTGCTTGGCCCGGGGAACCGGGAGGGCCCCGGCGATCGCGCGG
CGGCCGCCGCGAGGGTGTGAGCGCGCTGGGCGCCCGCCGAGCCGAGGCCATGGTGCAGCAAACCAACAATGCCG
AGAACACGGAAGCGCTGTGGCCGGCGAGAGCTCGGACTCGGGCGCCGGCCTCGAGCTGGGAATCGCCTCCTCCC
CCACGCCCGGCTCCACCGCTCCACGGGCGCAAGGCCGACGACCCGAGCTGGTGAAGACCCCGAGTGGGCACA
TCAAGCGACCCATGAACGCCCTTCATGGTGTGGTGCAGATCGAGCGGCGCAAGATCATGGAGCAGTCGCCCGACA
TGCACAACGCCGAGATCTCCAAGCGGCTGGGCAAACGCTGGAAGCTGCTCAAAGACAGCGACAAGATCCCTTTCA
TTCGAGAGGCGGAGCGGCTGCGCCTCAAGCACATGGCTGACTACCCCGACTACAAGTACCGGCCAGGAAGAAGG
TGAAGTCCGGCAACGCCAACTCCAGCTCCTCGGCCGCCGCTCCTCCAAGCCGGGGGAGAAGGGAGACAAGGTCG
GTGGCAGTGGCGGGGGCGGCCATGGGGGCGGCGGCGGCGGGAGCAGCAACGCGGGGGAGGAGGCGGCGGTG
CGAGTGGCGGCGGCGCCAACTCCAAACGGCGCAGAAAAAGAGCTGCGGCTCCAAAGTGGCGGGCGGCGCGGGCG
GTGGGGTTAGCAAACCGCACGCCAAGCTCATCTGGCAGGCGGCGGCGGCGGGAAAGCAGCGGCTGCCGCCG
CCGCTCCTTCGCCGCCGAACAGGCGGGGGCGCGCCCTGCTGCCCTGGGCGCGCGCCGCGGACCACTCGC
TGTACAAGGCGCGGACTCCAGCGCCTCGGCTCCGCTCCTCGGCAGCCTCGGCTCCGAGCGCTCGCGGCC
CGGGCAAGCACCTGGCGGAGAAGAAGGTGAAGCGCTTACCTGTTTCGGCGGCTGGGCACGTCGTCGTCGCCCG
TGGCGGCGGTGGGCGCGGGAGCCGACCCAGCGACCCCTGGGCTGTACGAGGAGGAGGGCGCGGGCTGCTCGC
CCGACGCGCCAGCTGAGCGGCGCAGCAGCGCGCTCGTCCCCCGCGCGCGGCGCTCGCCCGCGGACCACT
GCGGCTACGCCAGCTGCGCGCGCCTCGCCCGCCCGTCCAGCGCGCCTCGCACGCGTCTCTCGGCTCGT
CCCACTCCTCCTCTCTCTCTCGGGCTCCTCGTCTCCGACGACGAGTTCGAAGACGACCTGCTCGACCTGA
ACCCAGCTCAAACCTTTGAGAGCATGTCCCTGGGCAGCTTCAGTTCGTCGTCGGCGCTCGACCGGACCTGGATT
TTAACTTCGAGCCCGGCTCCGGCTCGCACTTCGAGTTCCCGGACTACTGCACGCCCGAGGTGAGCGAGATGATCT
CGGGAGACTGGCTCGAGTCCAGCATCTCCAACCTGGTTTTACCTACTGAAGGGCGCGCAGGCAGGGAGAAGGGC
CGGGGGGGGTAGGAGAGGAGAAAAAAAGTGAAGAAAAAGAAACGAAAGGACAGACGAAGAGTTTAAAGAGAAA
AGGGAAAAAAGAAAGAAAAAGTAAGCAGGGCTCGTTCGCCCGCGTTCTCGTCGTCGGATCAAGGAGCGCGGCGG
GTTTTGGACCCGCGCTCCCATCCCCACCTTCCCGGGCCGGGACCACTCTGCCAGCCGGAGGGACGCGGAGG
AGGAAGAGGGTAGACAGGGGCGACCTGTGATTGTTGTTATTGATGTTGTTGTTGATGGCAAAAAAAGCGAC
TTCGAGTTTGCTCCCTTTGCTTGAAGAGACCCCTCCCTTCCAACGAGCTTCCGACTTGTCTGCACCCCCA
GCAAGAAGGCGAGTTAGTTTTCTAGAGACTTGAAGAGTCTCCCCCTTCTGCATCACCACCTTGGTTTTGTTTT
ATTTGCTTCTTGGTCAAGAAAGGAGGGGAGAACCAGCGCACCCCTCCCCCTTTTTTAAACGCGTGATGAA
GACAGAAGGCTCCGGGGTGACGAATTTGGCCGATGGCAGATGTTTTGGGGGAACGCCGGGACTGAGAGACTCCAC
GCAGGCGAATTCCTGTTGGGGCTTTTTTCTCTCTCTTTTCCCTTGCCCCCTCTGCAGCCGGAGGAGGAGA
TGTGAGGGGAGGAGCCAGCTGTGACCGCGCTAGGAAATGACCCGAGAACCCGTTGGAAGCGCAGCAGC
GGGAGCTAGGGGCGGGGCGGAGGAGGACGAACTGGAAGGGGTTACGGTCAAACCTGAAATGGATTTCACG
TTGGGGAGCTGGCGGCGGCGGCTGCTGGGCTCCGCTTCTTTTCTACGTGAAATCAGTGAGGTGAGACTTCCCA
GACCCCGGAGGCGTGGAGGAGAGGAGACTGTTTGATGTGGTACAGGGGAGTCAGTGGAGGGCGAGTGGTTTTCG
AAAAAAGAAAAAGGG

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FIGURE 2033

MVQQTNNANTEALLAGESSDSGAGLELGIASSPTPGSTASTGGKADDP SWCKTPSGHIK RPMNAFMVWSQIERR
KIMEQSPDMHNAEISKRLGKRWLLKDSDKIPFIREAERLRLKHMADYPDYKYRPRKKVKSGNANSSSSAAASSK
PGEKGDKVGGSGGGHGGGGGGSSNAGGGGGGASGGGANSKPAQKKSCGSKVAGGAGGGVSKPHAKLILAGGGG
GGKAAAAAASFAAEQAGAAALLPLGAAADHHSLYKARTPSASASASSAASASAALAAPGKHLAEKKVKRVYLF
GLGTSSSPVGGVGAGADPSDPLGLYEEEGAGCSPDAPSLSGRSSAASSPAAGRSPADHRGYASLRAASPAPSSAP
SHASSSASSHSSSSSSSGSSSSDDEFEDLLDLNPSSNFESMSLGSFSSSSALDRDLDFNFEPGSGSHFEFPDYC
TPEVSEMISGDWLESSISNLVFTY

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FIGURE 2034

GGCCCCGCGCGGCCGAAATCCGCGGTTACAGC**ATGT**CCGCCTCGGCCCTGCTGCGGAGGGGGAGGGGAACCCCC
ACCCAGCCCGCGTCCGAGAAAGAACCCGAAATGCCCGGTCCGAGAGGAGAGCGAGGAGGAAGAGGACGAGGAC
GACGAGGAGGAGGAGGAGGAGGAGGAAAAAGAAAAGAGTCTCATCGTGGAAGGCAAGAGGGAAAAAGAAAAGTAGAG
AGGTTGACAATGCAAGTCTCTTCCTTACAGAGAGAGCCATTACAATTGCACAAGGAAAGGGGCAGAAACTTTGT
GAAATTGAGAGGATACATTTTTTTCTAAGTAAGAAGAAAACCGATGAACCTTAGAAATCTACACAAACTGCTTTAC
AACAGGCCAGGCACTGTGTCTCATTAAAGAAGAATGTGGGTCAGTTCAGTGGCTTTCCATTTGAAAAAGGAAGT
GTCCAATATAAAAAGAGGAAGAAATGTTGAAAAATTTAGAAATGCCATGTTAAAGAGCATCTGTGAGGTTCTT
GATTTGGAGAGATCAGGTGTAAATAGTGAAGTGTGAAGAGGATCTTGAATTTCTTAATGCATCCAAAGCCTTCT
GGCAAACCATTTGCCGAAATCTAAAAAACTTGTAGCAAAGGCAGTAAAAAGGAACGGAACAGTTCTGGAATGGCA
AGGAAGGCTAAGCGAACCAATGTCTGAAATCTGTGCAGATGAATCTAGTAGTGATGAAGATGAAAAGAAAAAC
AAGGAAGAGTCTTCAGATGATGAAGATAAAGAAAGTGAAGAGGAGCCACCAAAAAGACAGCCAAAAGAGAAAAA
CCTAAACAGAAAGCTACTTCTAAAAGTAAAAAATCTGTGAAAAGTGCCAAATGTTAAGAAAGCAGATAGCAGCACC
ACCAAGAAGAATCAAAACAGTTCCAAAAAGAAAGTGAGTCTGAGGATAGTTCAGATGATGAACCTTTAATTAA
AAGTTGAAGAAACCCCTACAGATGAAGAGTTAAAGGAAACAATAAAGAAATTACTGGCCAGTGCTAACTTGGAA
GAAGTCACAATGAAACAGATTTGCAAAAAGGTCTATGAAAATTATCCTACTTATGATTTAACTGAAAGAAAAGAT
TTCATAAAAACAACGTGAAAAGAGCTAATTTCT**TG**AGATAGAGGACAGAGAAGATGACTCGTTCCCATAGATTTG
AAGATCTGATTTATACCATTATACCAGCAAAGAGAAATGTTTCTTTCTAAATCCTTGTTAAGCAACGTTAGT
AGAACTTACTGCTGACCTTTTTATCTTGAGTGTATGTGAATTTGAGTTTGCTGTTTTAAATTGCATTTCTATGC
CATTTTTAGTTTTAAATCTTGCAATGGCATTAAATGTTCCCTTGCTTTTATAGTTGTATTTGTACATTTTGGATT
CTTTATATAAGGTCATAGATTCTTGAGCTGTTGTGGTTTTTAGTGCACTTAATATTAGCTTGCTTAAGGCATACT
TTTAATCAAGTAGAACAAAACTATTATCACCAGGATTTATACATACAGAGATTGTAGTATTTAGTATATGAAAT
ATTTTGAATACACATCTCTGTGCAGTGTGAAAATTCAGCGGCAGTGTGTCCATCATATTAATAATATACAAGCTAC
AGTTGTCCAGATCACTGAATTGGAACTTTTCTCTGCATGTGTATATATGTCAAATTGTCAGCATGACAAAAGTG
ACAGATGTTATTTXGTATTTTTAAAAACAATTTGGTTGTATATAAAGTTTTTTTATTTCTTTTGTGCAGATCAC
TTTTTAACTCACATAGGTAGGTATCTTTATAGTTGTAGACTATGGAATGTCAGTGTTCAGCCAAACAGTATGAT
GGAACAGTGAAAGTCAATTCAGTGATGGCAACACTGAAGGAACAGTTACCCTGCTTTGCCCTCGAAAGTGTCA
ATTTGTAATTTTAGTATTAACCTCTGTAAAAGTGTCTGTAGGTACGTTTTATATTATATAAGGACAGACCAAAAT
CAACCTATCAAAGCTTCAAAAACTTTGGGAAAGGGTGGGATTAAGTACAAGCACATTTGGCTTACAGTAAATGAA
CTGATTTTTATTAACCTGCTTTTGCCCATATAAAATGCTGATTTTACTGGAAACCTAGCCAGCTTCACGATTATG
ACTAAAGTACCAGATTATAATGCCAGAATATAATGTGCAGGCAATCGTGGATGTCTCTGACAAAGTGTGTCTCAA
AAATAATATACTTTTACATTAAAGAAATTTAATGTTTCTCTGGAGTTGGGGCTCTTGGCTTTCAGAGTTTGGTTA
ATCAGTGTGATTCTAGATGATCAACATAATGGACCACTCTGAATGAGACTTAATTTTGCTTTCAAATTTACT
GTCTTAAATCAGTTTATTAAATCTGAATTTTAAACATGCTGTTTATGACACAATGACACATTTGTTGCACCAAT
TAAGTGTGAAAAATATCTTTGCATCATAGAACAGAAATATATAAAAAATATGTTGAATGTTAACAGGTATTTT
CACAGGTTTGTCTTGATAGTTACTCAGACACTAGGGAAAGGTAAATACAAGTGAACAAAATAAGCAACTAAAT
GAGACCTAATAAATTGGCCTTCGATTTTAAATATTTGTTCTTATAAACCTTGTCATAAAAAATAAATCTAAATCA

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FIGURE 2035

MSASAPAAEGEGTPTQPASEKEPEMPGPREESSEEEDEDEDEEEEEEEKEKSLIVEGKREKKKVERLTMQVSSLQR
EPFTIAQGKGQKLCEIERIHFFLSKKKTDELRLNLHKLLYNRP GTVSSLKKNVGQFSGFPFEKGSVQYKKKEEMLK
KFRNAMLKSICEVLDLERSGVNSELVKRILNFLMHPKPSGKPLPKSKKTC SKGSKKERNSSGMARKAKRTKCPEI
LSDESSSDEDEKKNKEESSDDDEDKESEEEPPKKTAKREKPKQKATSKSKKSVKSANVKKADSSTTKKNQNSSKKE
SESEDSSDDEPLIKKLLKKPPTDEELKETIKKLLASANLEEVMTMQICKKVYENYPTYDLTERKDFIKTTVKELIS

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FIGURE 2036A

GGGGGAGGGAAACGGAGCAGTGACAGGTATCCCAGAGGGTGCTGCTGAGGCGACGATGGCCGAGGGGCCCCGAGGA
AGCCCCGAGGCCACCCTCCCGGGCAGGACGATGGCGGAGGGGACCACGAGCCCGTCCCTTCCCTGAGAGGCCCTCC
TACCACCGCCGTCCCATGCCCCCGCGACGACCCCCAGGCCGAACCCAGGCCCGGGCCGCCACAGCCCCGGG
CCTCGCGGCTGCCGCCGACGCCGACAAATTGGAGCCGCCGCGGAGCTCAGGAAGCGCGGGGAGGCGGCCTCCGG
CTCCGGTGACAGCTGCAGGAGCAGGCGGGCTGCGAGGCGCCGAAGCCGCGGCCACGAGAGAGACCAGCTCG
GCTGAGCGCCCGGAGTACTCCCGGCAAGTGCACGAGTGGCTGTGGCAGTCTACTGCGGCTACCTCACCTGGCA
CAGCGGCTGGCCGCCCTCCCAGCCTACTGCAGCCCCCAGCCCTCCCGCAGAGCTTCCCTTCGGGCGGCGCTGC
AGTCCCCCAGGCCGCGCGCGCGCCGCCCGCCCGCAGCTGGGCTATTACAACCCCTTCTACTTCTGAGCCCCGGGGC
CGCGGGGCTGACCCGCGGACAGCTGCCGGCATCAGCACCCCTGCTCCAGTCCGCGGGCCTGGGACCCCGGGCTCC
TCACGTGCAGGCGTCCGTCCGGGCCACTCCAGTGACGAGGGTAGGATCCGCGAGCCCTTCGCGAAGCCCGAGCGA
GACCGGGCGACAGGCAGGCAGAGAATATGTTATTCCATCCTTGGCCACAGATTTATGGCAGAGATGGTGGATTT
CTTTATTCTCTTCTTTATAAAGCAACCATTGTCTTAAGCATTATGCACCTCAGTGGGATAAAGGATATCTCTAA
GTTTGTATGCATTATATAATAGAAGAAATAGATGAAGACACATCAATGGAAGACTTGCAGAAAATGATGGTTGT
GGCACTTATATACAGATTATTAGTTTGTCTATGAGATAATTTGCATTGGGGAGCAGGTGGAGCTACCCAGG
GAAGTTCCTGCTGGGGCTTCGAGTTGTGACATGTGATACATCAGTGCTTATTGCACCAAGTCGGGTTTAGTGAT
TCCTTCTCAAAATGTTAGCATTACAACGTCCACTATCCGAGCTTTGATCAAGAATTTTCAATTGCTTCTTTTT
CCCTGCTTTCATCACACTGCTGTTTTTTCAGCATAATCGAACAGCTTATGACATTGTAGCAGGAACCATTTGTGGT
AAAAAGAAATGGGGTCAGATGATGCCCCCAAACCCGATTTCACACACTAAGACTAAATTATGTATCAAGGC
CATCAGTATCCCTGGGTTACACTAATTGATGATTTAGAAATTAAAGCAGTCACTCCAGTGTGATGCAGGTGACTA
CTCTGAAAGTATTGATTATACTTGAATGCCAAAGAACTTGTCAGAAGAAAACCTGTTAAATTCAAGTATTAAA
ATTTTAGATCAAAAAGGCAAATGATTTTATAAACAATGGACAATATATACTTCTTAAGATCTAAGGTACTTTC
TTAAGATCTAAGAATTTGCTGAAAGCATTTCAGCTTTGAAATCTCCAATGAACTTTAAATTTATTTTGGTT
TATCCCAAAATAATGAAAATGTCCAGTTGTGTTTTGTAAACACCTATGTAACCTCATCTTTTAGTTTACACTTCC
TGGGAAATTTGCTTTGGTGTTTAGAGGAGGGAATGAGAACACAAATTGGATAATCCACTGTCTCCCATCCCAGG
AGGTGGTGAGTTGGCTACAAGAGAAAGGACAAGTGAGGCGAGCCCTAGCAGTTCCCTTACCTGAAGTTTCAAA
CCACTGCAGTTCCCTCTCGTAATGATGTAACCTTACAACTATTCTTAATGCTTGAACATGTATTTAGGGGCAA
GTTTCTCATGATGATGAAAAAGTATCAAGTCATATTGCTATGTTAATTGGTTTTTTTTTTTAAAGGTAAGTTAG
TGATTACTGTTAATGGTGGGGAGTAAGTTTCACTGTAAATTGAACCTATAATTTATGTGCAAGTGTTTTCAGT
GCCCTGAATCAAACATAAATGTGGGGAGAAATCACCTCCATCAAACAGTTGCATATTTACTGTAAAAGTATTCC
CAGTATGTGTGCAGCATGAAGAAAGTATTAGTGCTTCTCAGTGTTCTCAGTGTAATTTCTATTTATATACAGCAT
ATTCACATACTACTTTCCTTATATTTTATATAGTTCTATGACTGTTGAAACATCAAGGAGTTAAAAAATCTTAA
TATTTTCATGATTAACCTAAGTACTATTAATTAATAGCTTGCGAAATATTAGCAATTTCCCATTTAGGACTATT
CTCTCTAAAGCAAGAGAGACTAGCATTCCCAGACATCATTTAGGGTCTTTAAGCTCATTTTGGGTCTGCTAAAG
TTTGGGGGGAATGTTACGCAAAGTGATACCTGTGATGTTGCCAATTTTGCTTTATTCTTCTGTTGAAGCAAAAT
GTGGGGTTTTATTATGTGTGTGCTTTTCTCAGATGTCCAGTTAGCTGTGCTGAGATATACCTGTACTATTTA
TGTTTAAAGTTTTGATTCTTAGGTATTTTCTCCAGCTCTGACATTGTTTTCCAAAGACACACTAACTGCATTGC
ACAGTTCAAAATTTGATTACTTAAGGGATCAATCTAGGTGGTGTCTTGGTCTTAAATTTAACAGCAAACACAGC
ACATATCTATTATCACTATATTAATTTCAAAGGTTTTTCTTTGACGTTTAAACTGTGACAACAGATATTACAA
TTTGATTATAGAACTTAATGTCTATTAATAATTTTAGTACAAAATTTTATAAACCCTGTTTTTCAAATAAGTT
TATGTCAAATCCAGCTTCCAGAAACATAATAATTAAGTACATCAATGTACTAAATAAATCATTAGTTGCACC
CATGGGGAAGATTGTGTTACTGCCCTTCACAGTGAAAAAAGAAAAATCTTTCATTTTTTAAATTAGGAGATGTT
ACGTAACCTGGCACTTTAGTAGTGTATACACTAGCATTAGTTTATACACCCTTTTGCCGCTGGGGAATTCAAGT
TGAAATGTCCCTCAATCATATAGGTCTGGAATACATCTTTCATTACATAATTTCTGCTCAGATAATTGAATAGTTT
GCCATCGAGATTATTTTCATTATATACTATAAAACAAAAGCAAACCTAGTCCAGTTTAATTTTTTGTACTTAGAATA
TTGCACATTTTCTATATATGAGTTATTTCAGATTAGTATCTATGTAGGTTTCAGTCAGATCCAACCATGGATTTCGAG
GTATTATACTGTATAACCTACAAAATACATAGAAGTATTATTTGCCTTCATAATAGAACCAAGAGTCTGTTTTC
AATTTATGAATTCAGTATTTGCACCGAGATTTTGATTCCCAAAGTTTGAAAAAAATGACAAAACACGAGGGAA
GAAGGAACACAGACCTTAGTGCCACATATTTTCTCTTGGGGTTGTAAGGTAGTCTCCTGCTTTCAGAACACTTT

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FIGURE 2036B

ATTATATTTCACTTATAGACCTGATTTTCTGTGTCAAAGTATAATTCTCATGCTGAAGCTGTAGCCTAAAAAGCC
AAAAGAAAGTTGTCTTCATTGTACAAACATATTCATCACTTTAACAATAAGGGAACAAAATTTAGTATTCAAGCT
GAGTGAGAATACTGTTTTCAATGAGCATGTCCCTAAGATAAACAGAAATTGGCAGTTAATTTAGGCGTCTAGAAAA
TCTCAGTTCCCAACAGTAAATTTATCCTGAGTAGCTAATGCACCTTGAGAAAAATCTGGCATACTGAATAAATAA
CATTAACTTGGGAGCCAAGAGCTGGGTAAGCCTTACCTTTAGACTACTCTGTGACTACAGAAATAAAGCCAGCAC
TTTTGGAACATAATAAGCCTTCACTTGTTCAGTATCATAAAGAGTATTGCCCACTGAACTTTGCTCCCACTGGTTT
AATAGTTACTTATTTCTGCCTAAGCACTCACCTTCCGATTTTACCCAAGTATATATATAGGATAGAAAAAATGC
ATTATATTTGAGAGCTACTTCGCCCAAATTACAAATGAGTGTTTTTAGATTCAAGTGACAGTAAAGGATTTGT
TCCCTTCAGTGACTTGAGTGTTTTAGTTATGCATAAGTATTTCTAGCAAAGGAAGGGTAGAAAGGAATTGAAAT
TAATTTACACTAGTTGCTACTTGGAATAAAGGGCTTTTGAGGGGGGTATGGATATTAAATGTTTTTCGTTATAT
ACTTATCCCTATTAAAAACAGGCAGTTGTTTCTTTGAATATGCCTAAATAACAGTATTCTTAAATCTGACAGACA
AGTAACATGTCAATTACTTGATATTCCTTGTCTCCAGTACCACAGGCCACTCTTGACATCCCATGTTTGCCTGGA
TAAAGTTCCCTCATTTCAAACAGTATACATACTTCTTTGCAGTTCATTATAGTAAGGCTTAACCTGTAAACAGTAT
CTGATGGCCACCTATAAATAAAATTCAGCATTCTATTTTAAATAATTTGTATGCCACCAATTTGTATTATTTGT
CTCAATAAATACTTAGTCATCAATGC

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FIGURE 2038

MPRIDADLKLDKDVLLRPKRSSLKSRAEVDLERTFTFRNSKQTYSGIPIIVANMDTVGTFEMA AVMSQHSMFTA
IHKHYSLDDWKLFATNHPECLQNAVSSGSGQNDLEKMTSILEAVPQVKFICLDVANGYSEHFVEFVKLVRAKFP
EHTIMAGNVVTGEMVEELILSGADI IKVGVGPGSVCTTRTKTGVGYPQLSAVIECADSAHGLKGHIISDGGCTCP
GDVAKAFGAGADFVMLGGMFSGHTECAGEVFERNGRKLKLFYGMSSDTAMNKHAGGVAEYRASEGKTVEVPYKGD
VENTILDILGGLRSTCTYVGA AKLKELSRRATFIRVTQQHNTVFS

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FIGURE 2039A

GTTTTACTAAAGTGAATTTTTTTTTGTTTGCTTCGTTCTGCTTTGGCTCTTTTTTTTTCTTCCCAATTTCCGAT
TTATTTCAAGGCGAATCTGGCTTTGGGGGAAGAGGAAGAAAAGTCCGATTACAAGATCAACCACCACCAACAACA
ATAAAAACCACCAGGATATTTTTTTGCAAATTTCTGACGGCTTTAAATTCATGAAGCAATTGTCCCTTTTGCAA
TCAGCATTGGATCTCAGAATGAGCAAGGAAAGACCCAAGAGGAATATCATTAGAAGAAATACGATGACAGTGA
TGGGATTCCGTGGTCAGAAGAACGGGTGGTACGTAAAGTCCTTTATTTGTCTCTGAAGGAGTTCAAGAATCCCA
GAAGAGGCAGCATGCGGAAGGCATTGCTGGGAGCCTGAAAACCTGTGAATGGGCTCCTTGGTAATGACCAGTCTAA
GGGATTAGGACCAGCATCAGAACAGTCAGAGAATGAAAAGGACGATGCATCCCAAGTGCTCTCCACTAGCAACGA
TGTTAGTTCTTCAGATTTTGAAGAAGGGCCGTCGAGGAAAAGGCCAGGCTGCAAGCACAAAGGAAGTTTGCTCA
GTCTCAGCCGAATAGTCCAGCACAACTCCAGTAAAGATAGTGGAGCCATTGCTACCCCTCCAGCTACTCAGAT
ATCAGACCTCTCTAAAAGGAAGCCTAAGACAGAAGATTTTCTTACCTTTCTCTGCCTTCGAGGTTCTCTGCGCT
GCCCCAACAGCATGGTGTATTTTGAAGCTCTCAGGATGAGGAGGAAGTCGAGGAGGAAGATGATGAGACAGAAGA
CGTCAAAACAGCCACCAACAATGCTTTCATCTTCATGCCAGTCGACCCCCAGGAAAGGAAAAACCCACAAACATGT
TCACAACGGGCATGTTTTCAATGGTTCAGCAGGTCAACACGGGAGAAGGAACCTGTTCAAAACACAAAAGCAA
AGAGGCCACTCCCGCAAAGGAGAAGCACAGCGATCACGGGGCTGACAGCCGCGGGAGCAGGCTTCAGCTAACCA
CCCCGCAGCGCCCCCTCCACGGGTTCCTCGGCCAAGGGGCTTGCTGCCACCCATCACCACCCCTCTGCATCG
GTGGCTCAGGACTTACGGAACAGGTTTCTAAGGTAAACGGAGTCACTCGAATGTCATCTCTGGGTGCAGGTGT
AACCAGTGCCAAAAGATGCGCGAGGTGAGACCTTACCATCCAAAACCTGTGAAGTACACTGCCACGGTGACGAA
GGGGGCTGTACATACACCAAGCCAAGAGAGAACTGGTCAAGGACACCAAAACCAATCACCACAAGCCAGTTC
CGCTGTCAACCACACAATCTCAGGGAACCTGAAAGTAGCAATGCAAAAACCCGCAACAGGTGCTATCCCTCGG
GGGGGCGTCCAAGTCCACTGGGCCCGCGTCAATGGCCTCAAGGTCAGTGGCAGGTGAAACCAAGTCATGCAC
TAAGGAGGTGGGGGGGGCGGACGTGCGGGAGGGCCTGCAGCTGCGGGAGGGGCTGCGGAACCTCAAGAGGAGACT
GGAAGAGGCACACCAGGCGGAGAAGCCGAGTCGCCCCCAAGAAGATGAAAGGGGCGGCTGGCCCCCGGAAGG
CCCTGGCAAGAAGGCCCGCGGAGAGAGGTCTGCTGAACGGACACGTGAAGAAGGAAGTGCCGGAGCGCAGTCT
GGAGAGGAATCGGCCAAGCGGGCCACGGCCGGGAAGAGCACGCCAGGCAGACAAGCACATGGCAAGGCGGACAG
CGCCTCTGTGAAAATCGTTCTACCTCGCAACCGGAGTCCGTGCACAAGCCGAGGACTCGGGCAAGGCCGAGAA
GGGCGGCGCAAGGCCGGGTGGGCGGCCATGGACGAGATCCCCGTCTCAGGCCCTCCGCCAAGGAGTTCACGA
TCCGCTCATCTACATCGAGTCGGTCCGCGCTCAGGTGGAGAAGTTCGGGATGTGCAGGGTGATCCCCCTCCGA
CTGGCGGCGCGAGTGCAAGCTCAACGATGAGATGCGGTTTGTACGCAGATTACGCATCCACAAGCTGGGCGG
GCGCTGGGGCCCCAACGTGCAGCGGCTGGCCTGCATCAAGAAGCACCTCAAATCTCAGGGCATCACCATGGACGA
GCTCCCGCTCATAGGGGGCTGTGAGCTCGACCTGGCCTGCTTTTTCCGGCTGATTAATGAGATGGGCGGCATGCA
GCAAGTGACTGACCTCAAAAAATGGAACAACTAGCAGACATGCTGCGCATCCCAGAACTGCCCAGGACCGGCT
GGCCAAGCTGCAGGAGGCTTACTGCCAGTACCTACTCTCTACGACTCCCTGTCCCCAGAGGAGCACCGCGGCT
GGAGAAGGAGGTGCTGATGGAGAAGGAGATCTTGAGAAGCGCAAGGGGCGCTGGAAGGCCACACAGAGAAGCA
CCACCACAAGTTCACCCCTCTGCCCCGCTTCGAGCCCAAGAATGGGCTCATCCACGGCGTGGCCCCAGGAACGG
CTTCGCAGCAAGCTCAAGGAGGTGGGCCAGGCCAGTTGAAGACTGGCCGGCGGCGACTCTTCGCTCAGGAAAA
AGAAGTGGTCAAGGAAGAGGAGGAGGACAAAGGCGTCTCAATGACTTCCACAAGTGATCTATAAGGGAAGGTCT
TGTTTCTCTAACAACTTTTTATCGAACAGCGAGGAATATCATGAGCATGTGTTTCAGCAAGGAGCCTGCCCCAGC
CGAAATCGAGCAAGAGTACTGGAGGCTAGTGGAAGAGAAGGACTGCCACGTGGCAGTGCACTGCGGCAAGGTGGA
CACCAACACTCAGGCGAGTGGATTCCCAGTAGGAAAATCAGAACCCTTTTCGAGGCATGGATGGAACCTCACCGT
CCTCCCCAATAACACAGGGTCCATCCTGCGTCACCTCGGTGCTGTGCTGGAGTGACTATTCCCTGGCTAAATAT
TGGCATGGTCTTTTCTACCTCATGCTGGTCTCGAGACCAAAATCACCTTCCATACATTGACTACTTACACACTGG
TGCTGACTGCAATTTGGTATTGCAATTCCTGCTGAGGAGGAGAACAAGCTGGAAGATGTGGTCCACACCCTGCTGCA
AGCCAATGGCACCCCGAGGCTGCAGATGCTGGAAGCAACGTCATGATCTCCCCGGAGGTGCTGTGCAAGAGGG
GATCAAGGTGCACAGGACCGTGCAGCAGAGTGGCCAGTTTGTCTGCTGCTTCCCGGGATCCTTTGTGTCAAAAGT
GTGCTGTGGGTACAGCGTGTCTGAAACCGTGACCTTTGCTACCACCCAGTGGACAAGTATGGGCTTTGAGACCGC
CAAGGAAATGAAGCGTCGCCATATAGCTAAGCCATTCTCCATGGAGAAGTTACTCTACCAGATTGCACAAGCAGA
AGCAAAAAAAGAAAACGGTCCCACTCTCAGTACCATCTCAGCCCTCCTGGATGAGCTCAGGGATACAGAGCTGCG
GCAGCGCAGGCAGCTGTTTCGAGGCTGGCCTCCACTCCTCCGCACGCTATGGCAGCCACGATGGCAGCAGCACGGT

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FIGURE 2039B

GGCGGACGGGAAGAAAAAGCCTCGAAAGTGGCTGCAGTTGGAGACGTCAGAGAGGAGGTGTCAGATCTGCCAGCA
CCTGTGCTACCTGTCCATGGTGGTACAAGAGAACGAAAACGTCGTGTTCTGTCTGGAGTGTGCTCTGCGCCACGT
GGAGAAACAGAAATCCTGCCGAGGGCTGAAGTTGATGTACCGCTACGATGAGGAACAGATTATCAGTCTGGTCAA
TCAGATCTGCGGCAAAGTGTCTGGTAAAAACGGCAGCATTGAGAACTGTCTCAGTAAACCCACACCAAAAAGAGG
TCCCCGCAAGAGAGCGACAGTGGACGTGCCCCCTCCCGTCTGTGTCAGCCTCCAGTTCATCCAAAAGTGCCTTCGAG
CTCATCATGAAGATGCCAACGCCCGTGGTTCGATTATATATATATTTTTTTGTAAATTATTATATTCTAGTTTGGAGT
ACTTGCTGTAGGATTCAAGCTGTCTTTGCACTAGCTCTAAAGAAGATTTTCTTCGTGTTTTAGAGAACTAATTTT
GTTTTAGCATTAACTGTGAACTTTTTTTTGTACTTAGAAAACCTAGATACTGCAGTCAGATTTTGGAACTGC
CGTATAGTCACCTGTTTTAAAAACCCCGGAGGGGCTGTATTAATTTGTATTGCCCCATGGCTGACAAAAGCCTTTT
TTTTTGGTTTTGATTTTTTTTTTTTTTGTAACTGTTGGGGGGAAAAAGGCTTTTTTAACCCATTTTTGAAGAGGGTG
AAGTTTGGAGAACAAATTTAAAAACCATCAGTCATGTGAGCAGATTTTGTAGAAGGGATAGGAGACACACGCGCA
CACACACACACACAGAACTTGAATGGCTTTGCTTTGGCTGTCGCTTCTGCCGTGTGCCAGATGAGCTTGTG
ATCTGGGAAGCCGGGACCCCCGTTTTGTTTTCTCTGGGCGGTTGTGGCAGCTGAAGGCGGACGTTGTTTCTTAA
CCATAGGTGGAACGAGGAGACGGGAGCGAGTGGGCTCTCCACCAGCACATCACTATGCATCTGTTCCAGGAAAGA
AGAAAAGCGAGCGAGGAAGACGGAAAAAGACTGCCTGCCTTGGAGGGGTCACATGAGGGAGACCTGTGCCTGATTT
CATTAGGAAATCCATTCTGTTATTTTTTGGTGTCTGTTGGCTACTTTATCAAAAAACCCTTCAATAGCATCCTTAA
GATTTAAAAAAGGAAAAAAGTGAAGCCGTAAGTGCTTCTTTGTCTATCGACGTGCA
ATCTTTCTAACATTCCATCTCCATCTCACCGCTTCTTGTGTTGACACCTTCACAAGTCAGCATTAACTTTCTTTT
AAAACTTGTTCATTTATGATCATGTAGAGAGCCACTAGGAGGCCTGCAGTTATTTTGAATGTGAAAATGCATT
TGCGTTTCATCTTGCTATTTTTTCTCTTCATGTTGTAACAAAAGGAAAAAAGAAAAAATCCCATCCCTTTT
GTACATATGCCTGTAAATTGTTTTAAATACTTGAGCCTTTTTCTCGGTGGGGGTGGGGAGGGGGGTGAGAAGAC
AAGATGAAGAAAAGCCTTACATTTCACTTTCTTCATCGGTTGGATTGGATGCTTACAGGGTTTTTCTTGTAAACAT
TTATAAGTGTCTGCTTACATCACTGAACAACAACAAAAAATAATAATGGAGTAGCTGTTGCCCTTCTCCGGTTGT
GTGTACAGTATGTGTGGAATAAAAAAGGGAACGTTTTTCAAGCTGTTCTTTGTTTCATAATTGGATTTCATCA
ATCCCGTAGCTACCCATATTGCACTGAGCTTGCCAGTGGTGACTGCCAGGAACGTCCTATGATCCACTTTGTTGG
TTGTTGTTGTCAGAAGACTGAACTGTTTTGGAATATTTAACAATTACAGAAACAGTCAAGTGTTCATGTTGGT
TGTCCGGTTTCTATGGCCTTGCTGTGTAATTTCCCTCTTTTGTACAGTAACTTCTGCCTATGGCTTACAGTTTG
ACATTTAATTTATTAGCGCTGCTCTGCACCCCTCCCTTGGGAGGGAGACTTCATGTGGTTTATTGCGAGTTTTT
GTTTACTTTTCAGGTTTGTACTACAAGGTTTAAATAAAAAACAAAGTTTTTTGGA

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FIGURE 2040

MSKERPKRNI IQKKYDDSDGIPWSEERVVRKVLYLSLKEFKNSQKRQHAEGIAGSLKTVNGLLGNDQSKGLGPAS
EQSENEKDDASQVSSTSNDVSSSDFEEGPSRKRPRLQAQRKFAQSQPNSTTPVKIVEPLPPPATQISDLSKR
KPKTEDFLTFLCLRGSPALPNSMVYFGSSQDEEEVEEEDDEDVKTATNNASSCQSTPRKGKTHKHVHNGHVF
NGSSRSTREKEPVQKHKSKEATPAKEKHSDDRADSREQASANHPAAAPSTGSSAKGLAATHHHPPLHRS AQDLR
KQVSKVNGVTRMSSLGAGVTSAKKMREVVRPSPSKTVKYTATVTKGAVTYTKAKRELVKDTKPNHHPSSAVNHTI
SGKTESSNAKTRKQVLSLGGASKSTGPAVNLKVSGRNLNPKSCTKEVGGRQLREGLQLREGLRNSKRRL EEAHQ
EKPQSPPKMKGAAGPAEGPGKKAPAERGLLNHGVKKEVPERSLERNRPKRATAGKSTPGRQAHGKADSASCENR
STSQPESVHKPDQSGKAEKGGGKAGWAAMDEIPVLRPSAKEFHDP LIYIESVRAQVEKFGMCRVIPPDPWRPECK
LNDEMRFVTQIQHIHKLGRRWGPNVQRLACIKKHLKSQGITMDELPLIGGC ELDLACFFRLINEMGGMQQVTDLK
KWNKLADMLRIPRTAQDRLAKLQEAYCQYLLSYDSLSP EEHRRLEKEVLMEKEILEKRKGPLEGHTENDHHKFHP
LPRFEPKNGLIHGVAPRNGFRSKLKEVGQAQLKTGRRRLFAQEKEVVKEEEDKGV LND FHKCIYKGRSVSLTTF
YRTARNIMSMCF SKEPAPAEIEQEYWR LVEEKDCHVAVHCGKVD TNTHGSGFPVGKSEPF SRHGWNLT VLPNNTG
SILRHLGAVPGVTIPWLNIGMVFSTSCWSRDQNHLPYIDYLHTGADCIWYCIPAE EENKLEDV VHTLLQANGTPG
LQMLESNVMISPEVLCKEGIKVHRTVQSGQFVVCFFPGSFVSKVCCGYSVSETVHFATTQW TSMGFETAKEMKRR
HIAKPF S MEKLLYQIAQAEAKKENGPTLSTISALLDEL RDT ELRQRRQLFEAGLHSSARYGSHDGSSTVADGKKK
PRKWLQLET SERRCQICQHL CYLSMVVQENENNVFCLECALRHVEKQKSC RGLKLMYRYDEEQIISLVNQICGKV
SGKNGSIENCLSKPTPKRGPRKRATVDVPPSRLSASSSSKSASSSS

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FIGURE 2041

GCCCATGCCCCGCCCCCGCTAGACGCTGTGGTGTGTACGGCCGCAGCGGGGCAGGGGGTCTCCGAGGCCGCTGCG
GCACGTAATCAGAGAGCTTTCAAAGCATCACTCATGAACTGACTTGTTTAGAGCCCTCCCCTGCTCCCTGCGC
TGCACTGACAATGCCATCTATACCCCTCAGCATGACCCAGGAGGAACATATTTTCATTTCATCACTCTTGGAAG
GCACCCAGAATTGCTAACCAAATTCTGGCTCCCTTTGAAATGAGGCCTGTATTTGTGGAGGTCACGGGACATACA
GGTGTTACATCATCCTCTGTGAGATGAAGAAGAGTTGCATGCAGCAGTTCATTAAAGATCGATGGCAAGGTCCGA
ACTGACAAAACCTACCCTGCTGGATTCAIGGATGTCATCAGCATTGACAAGATGGGAGAGAATTTTGTCTGATC
TATGACACCAAGGGTCACTTTGCTGTACATTGTATTACACCTGAGGAAGCCAAAATTGGTGTGATCACCAACAGA
GAGAGGCACCCTGGATCTTTTGACGTGTTTACATGAAAGATGCCAATGGCCACAGCTTTGCCACTCAACTTTCC
AACATTTTGTATTGGCAAGGGCAACAAACCATGGATTTCTCTTCCCTGA

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FIGURE 2042

CCTTTCCGTCTGGCGGCAGCCATCAGGTAAGCCAAGATGGGTGCATACAAGTACATCCAGGAGCTATGGAGAAAG
AAGCAGTCTGATGTCATGCGCTTCTTCTGAGGGTCCGCTGCTGGCAGTACCGCCAGCTCTCTGCTCTCCACAGG
GCTCCCCGCCCCACCCGGCCTGATAAAGCGCGCCGACTGGGCTACAAGGCCAAGCAAGGTTACGTTATATATAGG
ATTCGTGTTGCGCGTGGTGGCCGTAAACCAGCTAAAGTTTGCTCGAAGCCTTCAGTCCGTTGCAGAGGAGCGAGTT
GGACGCCACTGTGGGGCTCTGAGGGTCCTGAATTCTTACTGGGTTGGTGAAGATTCCACATACAAATTTTTTGAG
GTTATCCTCATTGATCCATTCCATAAAGCTATCAGAAGAAATCCTGACACCCAGTGGATCACCAAACCAGTCCAC
AAGCACAGGGAGATGCGTGGGCTGACATCTGCAGGCCGAAAGAGCCGTGGCCTTGGAAAGGGCCATAAGTTCCAC
CACACTATTGGTGGCTCTCGCCGGGCAGCTTGGAGAAGGCGCAATACTCTCCAGCTCCACCGTTACCGCTAATAT
AAGTAAAGTCTGTAAAATTCATACTTAATAAA

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FIGURE 2043

MGAYKYIQELWRKKQSDVMRFLLRVRCWQYRQLSALHRAPRPTRPDKARRLGYKAKQGYVIYRIRVRGGRNQLK
FARSLQSVAEERVGRHCGALRVLNSYWVGEDSTYKFFEVLIDPFHKAIRRNPDTQWITKPVHKKHREMRGLTSAG
RKSRGLGKGHKFHHTIGGSRRRAAWRRRNTLQLHRYR

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FIGURE 2044A

CCGACCAACACCAACACCCAGCTCCGACGCAGCTCCTCTGCGCCCTTGCCGCCCTCCGAGCCACAGCTTTCTCTCC
CGCTCCTGCCCCCGGCCCGTTCGCCGTCTCCGCGCTCGCAGCGGCCCTCGGGAGGGCCAGGTAGCGAGCAGCGACC
TCGCGAGCCTTCCGCACTCCCGCCCGGTTCCCGGCCGTCCGCCTATCCTTGCCCCCTCCGCTTTCTCCGCGCC
GGCCCGCCTCGCTTATGCCTCGGCGCTGAGCCGCTCTCCCGATTGCCCGCCGACATGAGCTGCAACGGAGGCTCC
CACCCGCGGATCAACACTCTGGGCCGCATGATCCGCGCCGAGTCTGGCCCGGACCTGCGCTACGAGGTGACCAGC
GGCGGGGGGGCACCAGCAGGATGTACTATTCTCGGCGCGGCGTGATCACCGACCAGAACTCGGACGGCTACTGT
CAAACCGGCACGATGTCCAGGCACCAGAACCAGAACCATCCAGGAGCTGCTGCAGAAGTCTCCGACTGCTTG
ATGCGAGCAGAGCTCATCGTGACGCTGAATTGAAGTATGGAGATGGAATACAAGTACTCGGAGTTCGAGAATTG
GATGAGTGTTCGCCCCAGGCCAATGACCAAATGGAATCCTCGACAGCTTGATCAGAGAGATGCGGCAGATGGGC
CAGCCCTGTGATGCTTACCAGAAAAGGCTTCTTCAGCTCCAAGAGCAAATGCGAGCCCTTTATAAAGCCATCAGT
GTCCCTCGAGTCCGACAGGGCCAGCTCCAAGGGTGGTGGAGGCTACACTTGTGAGAGTGGCTCTGGCTGGGATGAG
TTCACCAAACATGTACACAGTGAATGTTGGGGTGGATGAGGCAGCAAAGGGCGGAGATGGACATGGTGGCTGG
GGTGTGGACCTGGCTCAGTGGAGCAGCACATTAAACGCCACCGGGGCATCCACAACCTCCATCGGCGACTATCGC
TGGCAGCTGGACAAAATCAAAGCCGACCTGCGCGAGAAATCTGCTATCTACCAGTTGGAGGAGGAGTATGAAAAC
CTGCTGAAAGCGTCTTTGAGAGGATGGATCACCTGCGACAGCTGCAGAACATCATTACAGCCACGTCCAGGGAG
ATCATGTGGATCAATGACTGCGAGGAGGAGGAGCTGCTGTACGACTGGAGCGACAAGAACACCAACATCGCTCAG
AAACAGGAGGCCCTTCTCCATACGCATGAGTCAACTGGAAGTTAAAGAAAAAGAGCTCAATAAGCTGAAACAAGAA
AGTGACCAACTTGTCTCAATCAGCATCCAGCTTCAGACAAAATTGAGGCCTATATGGACACTCTGCAGACGCAG
TGGAGTTGGATTCTTCAGATCACCAGTGCATTGATGTTTCATCTGAAAGAAAATGCTGCCTACTTTTCAGTTTTT
GAAGAGGCGCAGTCTACTGAAGCATACTGAAGGGCTCCAGGACTCCATCAGGAAGAAGTACCCCTGCGACAAG
AACATGCCCCTGACGACCTGCTGGAACAGATCAAGGAGCTGGAGAAAGAACGAGAGAAAATCCTTGAATACAAG
CGTCAGGTGCAGAACTTGGTAAACAAGTCTAAGAAGATTGTACAGCTGAAGCCTCGTAACCCAGACTACAGAAGC
AATAAACCCATTATTCTCAGAGCTCTCTGTGACTACAACAAGATCAGAAAATCGTGCATAAGGGGGATGAGTGT
ATCCTGAAGGACAACAACGAGCGCAGCAAGTGGTACGTGACGGGCCGGGAGGCGTTGACATGCTTGTTCCTCT
GTGGGGCTGATCATCCCTCCTCCGAACCCACTGGCCGTGGACCTCTCTTGCAAGATTGAGCAGTACTACGAAGCC
ATCTTGGCTCTGTGGAACCAGCTCTACATCAACATGAAGAGCCTGGTGTCTTGGCACTACTGATGATTGACATA
GAGAAGATCAGGGCCATGACAATCGCCAAGCTGAAAACAATGCGGCAGGAAGATTACATGAAGACGATAGCCGAC
CTTGAGTTACATTACCAAGAGTTCATCAGAAATGACCAAGGCTCAGAGATGTTTGGAGATGATGACAAGCGGAAA
ATACAGTCTCAGTTACCCGATGCCAGAAGCATTACCAAGCCCTGGTCAATCAGTCCCTGGCTATCCCCAGCAC
CAGACAGTGACCAACAATGAAATCACTCATCATGGAACCTGCCAAGATGTCAACCATAATAAGTAATTGAAACC
AACAGAGAAAATGACAAGCAAGAAACATGGATGCTGATGGAGCTGCAGAAGATTGCGAGGCAGATAGAGCACTGC
GAGGGCAGGATGACTCTCAAAAACCTCCCTCTAGCAGCCAGGGATCTTCTCACCACATCAGTGAAAATTAAC
GAGCTTAAGAGTGTGCAGAATGATTACAAGCAATTGCTGAGGTTCTCAACCAGCTTAAAGATATGCTTGCCAAC
TTCAGAGGTTCTGAAAAGTACTGCTATTTACAGAATGAAGTATTTGGACTATTTACAGAACTGGAAAATATCAAT
GGTGTACAGATGGCTACTTAAATAGCTTATGCACAGTAAGGGCACTGCTCCAGGCTATTTCCAAACAGAAGAC
ATGTTAAAGGTTTATGAAGCCAGGCTCACTGAGGAGGAAACTGTCTGCCTGGACCTGGATAAAGTGGAAGCTTAC
CGCTGTGGACTGAAGAAAATAAAAAATGACTTGAAGTGAAGAAGTCGTTGTTGGCCACTATGAAGACAGAACTA
CAGAAAGCCCAGCAGATCCACTCTCAGACTTCACAGCAGTATCCACTTTATGATCTGGACTTGGGCAAGTTCGGT
GAAAAAGTCACACAGCTGACAGACCGCTGGCAAAGGATAGATAAACAGATCGACTTTAGGTTATGGGACCTGGAG
AAACAAATCAAGCAATTGAGGAATTATCGTGATAACTATCAGGCTTTCTGCAAGTGGCTCTATGATGCTAAACGC
CGCCAGGATTCTTAGAATCCATGAAATTTGGAGATTCCAACACAGTCATGCGGTTTTTGAATGAGCAGAAGAAC
TTGCACAGTGAATATCTGGCAAACGAGACAAATCAGAGGAAGTACAAAAAATTGCTGAACCTTTGCGCCAATTCA
ATTAAGGATTATGAGCTCCAGCTGGCCTCATACCTCAGGACTGGAACTCTGCTGAACATACCTATCAAGAGG
ACCATGATTACGTCCCTTCTGGGGTGATTCTGCAAGAGGCTGCAGATGTTTCATGCTCGGTACATTGAACTACTT
ACAAGATCTGGAGACTATTACAGGTTCTTAAGTGAGATGCTGAAGAGTTTGAAGATCTGAAGCTGAAAAATACC
AAGATCGAAGTTTTGGAAGAGGAGCTCAGACTGGCCCGAGATGCCAACTCGGAAAACGTGAATAAGAACAAATTC
CTGGATCAGAACTGCAGAAATACCAGGCAGAGTGTCCAGTTCAAAGCGAAGCTTGCGAGCCTGGAGGAGCTG
AAGAGACAGGCTGAGCTGGATGGGAAGTCGGCTAAGCAAAATCTAGACAAGTGTACGGCCAAATAAAGAACTC

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FIGURE 2044B

AATGAGAAGATCACCCGACTGACTTATGAGATTGAAGATGAAAAGAGAAGAAGAAAATCTGTGGAAGACAGATTT
GACCAACAGAAGAATGACTATGACCAACTGCAGAAAGCAAGGCAATGTGAAAAGGAGAACCTTGGTTGGCAGAAA
TTAGAGTCTGAGAAAGCCATCAAGGAGAAGGAGTACGAGATTGAAAGGTTGAGGGTTCTACTGCAGGAAGAAGGC
ACCCGGAAGAGAGAATATGAAAATGAGCTGGCAAAGGTAAGAAACCACTATAATGAGGAGATGAGTAATTTAAGG
AACAAGTATGAAACAGAGATTAACATTACGAAGACCACCATCAAGGAGATATCCATGCAAAAAGAGGATGATTCC
AAAAATCTTAGAAACCAGCTTGATAGACTTTTCAGGGGAAAATCGAGATCTGAAGGATGAAATTGTCAGGCTCAAT
GACAGCATCTTGAGGCCACTGAGCAGCGAAGGCGAGCTGAAGAAAACGCCCTTCAGCAAAAAGGCCCTGTGGCTCT
GAGATAATGCAGAAGAAGCAGCATCTGGAGATAGAATGAAGCAGGTCATGCAGCAGCGCTCTGAGGACAATGCC
CGGCACAAGCAGTCCCTGGAGGAGGCTGCCAAGACCATTGAGGACAAAATAAGGAGATCGAGAGACTCAAAGCT
GAGTTTCAGGAGGAGGCCAAGCGCCGCTGGGAATATGAAAATGAACTGAGTAAGGTAAGAAACAATTATGATGAG
GAGATCATTAGCTTAAAAAATCAGTTTGAGACCAGATCAACATCACCAAGACCACCATCCACCAGCTCACCATG
CAGAAGGAAGAGGATACCACTGGCTACCGGGCTCAGATAGACAATCTCACCCGAGAAAACAGGAGCTTATCTGAA
GAAATAAGAGGGCTGAAGAACACTCTAACCCAGACCACAGAGAATCTCAGGAGGGTGGAAGAAGACATCCAACAG
CAAAAGGCCACTGGCTCTGAGGTGTCTCAGAGGAAAACAGCAGCTGGAGGTTGAGCTGAGACAAGTCACTCAGATG
CGAACAGAGGAGAGCGTAAGATATAAGCAATCTCTTGATGATGCTGCCAAAACCATCCAGGATAAAAAACAAGGAG
ATAGAAAGGTTAAAAACAATGATCGACAAAAGAAACAAATGACCGGAAATGCCTGGAAGATGAAAACGCGAGATTA
CAAAGGGTCCAGTATGACCTGCAGAAAGCAAACAGTAGTGCGACGGAGACAATAAACAAACTGAAGGTTTCAGGAG
CAAGAAGTACACGCCTGAGGATCGACTATGAAAGGGTTTCCAGGAGAGGACTGTGAAGGACCAGGATATCACG
CGGTTCCAGAATCTCTGAAAGAGCTGCAGCTGCAGAAGCAGAAGGTGGAAGAGGAGCTGAATCGGCTGAAGAGG
ACCGCGTCAGAAGACTCCTGCAAGAGGAAGAAGCTGGAGGAAGAGCTGGAAGGCATGAGGAGGTCGCTGAAGGAG
CAAGCCATCAAAATCACCAACCTGACCCAGCAGCTGGAGCAGGCATCCATTGTTAAGAGAGGAGTGAGGATGAC
CTCCGGCAGCAGAGGGACGTGCTGGATGGCCACCTGAGGGAAAAGCAGAGGACCCAGGAAGAGCTGAGGAGGCTC
TCTTCTGAGGTGCGAGGCCCTGAGGCGGCAGTTACTCCAGGAACAGGAAAGTGTCAAACAAGCTCACTTGAGGAAT
GAGCATTTCAGAAGGCGATAGAAGATAAAGCAGAAGCTTAAATGAAAGCAAAATAGAAATTGAGAGGCTGCAG
TCTCTCACAGAGAACCTGACCAAGGAGCACTTGATGTTAGAAGAAGAACTGCGGAACCTGAGGCTGGAGTACGAT
GACCTGAGGAGAGGACGAAGCGAAGCGGACAGTGATAAAAATGCAACCATCTTGGAACCTAAGGAGCCAGCTGCAG
ATCAGCAACAACCGGACCCCTGGAAGTGCAGGGGCTGATTAATGATTTACAGAGAGAGAGGGAAAATTTGAGACAG
GAAATTGAGAAAATCCAAAAGCAGGCTTTAGAGGCATCTAATAGGATTCAGGAATCAAAGAATCAGTGTAATCAG
GTGGTACAGGAAAGAGAGAGCCCTTCTGGTGAAAATCAAAGTCTTGAGCAAGACAAGGCAAGGCTGCAGAGGCTG
GAGGATGAGCTGAATCGTGCAAAATCAACTCTAGAGGCAGAAACCAGGGTGAAACAGCGCCTGGAGTGTGAGAAA
CAGCAAATTCAGAATGACCTGAATCAGTGGAAGACTCAATATTTCCGCAAGGAGGAGGCTATTAGGAAGATAGAA
TCGGAAGAGAAAAGAGTGAGAGAGAGAAGAACAGTCTTAGGAGTGAGATCGAAAGACTCCAAGCAGAGATCAAG
AGAATTGAAGAGAGGTGCAGGCGTAAGCTGGAGGATTCTACCAGGAGACACAGTCACAGTTAGAAACAGAACGC
TCCCGATATCAGAGGGAGATTGATAAATCAGACAGCGCCATATGGGTCCCATCGAGAGACCCAGACTGAGTGT
GAGTGGACCGTTGACACCTCCAAGCTGGTGTTTGATGGGCTGAGGAAGAAGGTGACAGCAATGCAGCTCTATGAG
TGTCAGCTGATCGACAAAACAACCTTGGACAACTATTGAAGGGGAAGAAGTCAGTGGAAGAAGTTGCTTCTGAA
ATCCAGCCATTCCTTCGGGGTGAGGATCTATCGCTGGAGCATCTGCTTCTCCTAAGGAAAAATACTCTTTGGTA
GAGGCCAAGAGAAAGAAATTAATCAGCCCAGAAATCCACAGTCATGCTTCTGAGGCCCAGGCAGCTACAGGTGGT
ATAATTGATCCCCATCGGAATGAGAAGCTGACTGTGACAGTGCCATAGCTCGGGACCTCATTGACTTCGATGAC
CGTCAGCAGATATATGCAGCAGAAAAAGCTATCACTGGTTTTGATGATCCATTTTCAGGCAAGACAGTATCTGTT
TCAGAAGCCATCAAGAAAAATTTGATTGATAGAGAAACCGAATGCGCCTGCTGGAAGCCCAGATTGCTTCAGGG
GGTGTAGTAGACCTGTGAACAGTGTCTTTTTGCCAAAAGATGTCGCCTTGGCCCGGGGGCTGATTGATAGAGAT
TTGTATCGATCCCTGAATGATCCCCGAGATAGTCAGAAAACTTTGTGGATCCAGTCACCAAAAAGAAGGTCAGT
TACGTGCAGCTGAAGGAACGGTGCAATCGAACCACATACTGGTCTGCTCTTGCTTCAGTACAGAAGAGAAGC
ATGTCCTTCCAAGGAATCAGACAACCTGTGACCGTCACTGAGCTAGTAGATTCTGGTATATTGAGACCGTCCACT
GTCAATGAACTGGAATCTGGTCAGATTTCTTATGACGAGGTTGGTGAGAGAATTAAGGACTTCCTCCAGGGTTCA
AGCTGCATAGCAGGCATATACAATGAGACCACAAAACAGAAGCTTGGCATTATGAGGCCATGAAAATTGGCTTA
GTCCGACCTGGTACTGCTCTGGAGTTGCTGGAAGCCCAAGCAGCTACTGGCTTTATAGTGAGTCTGTTAGCAAC

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FIGURE 2044C

TTGAGGTTACCAAGTGGAGGAAGCCTACAAGAGAGGTCTGGTGGGCATTGAGTTCAAAGAGAAGCTCCTGTCTGCA
GAACGAGCTGTCACTGGGTATAATGATCCTGAAACAGGAAACATCATCTCTTTGTTCCAAGCCATGAATAAGGAA
CTCATCGAAAAGGGCCACGGTATTTCGCTTATTAGAAGCACAGATCGCAACCGGGGGGATCATTGACCCAAAGGAG
AGCCATCGTTTACCAAGTTGACATAGCATATAAGAGGGGCTATTTCAATGAGGAACCTCAGTGAGATTCTCTCAGAT
CCAAGTGATGATACCAAAGGATTTTTTGACCCCAACACTGAAGAAAATCTTACCTATCTGCAACTAAAAGAAAGA
TGCATTAAGGATGAGGAAACAGGGCTCTGTCTTCTGCCTCTGAAAGAAAAGAAGAAACAGGTGCAGACATCACAA
AAGAATACCTCAGGAAGCGTAGAGTGGTCATAGTTGACCCAGAAACCAATAAAGAAATGTCTGTTTCAGGAGGCC
TACAAGAAGGGCCTAATTGATTATGAAACCTTCAAAGAACTGTGTGAGCAGGAATGTGAATGGGAAGAAATAACC
ATCACGGGATCAGATGGCTCCACCAGGGTGGTCTGGTAGATAGAAAGACAGGCAGTCAGTATGATATTCAAGAT
GCTATTGACAAGGGCCTTGTGACAGGAAGTTCTTTGATCAGTACCGATCCGGCAGCCTCAGCCTCACTCAATTT
GCTGACATGATCTCCTTGAAAAATGGTGTCCGCCACCAGCAGCAGCATGGGCAGTGGTGTGACGGATGATGTTTTT
AGCAGCTCCCCGACATGAATCAGTAAGTAAGATTTCCACCATATCCAGCGTCAGGAATTTAACCATAAGGAGCAGC
TCTTTTTCAGACACCTTGGAAGAATCGAGCCCCATTGCAGCCATCTTTGACACAGAAAACCTGGAGAAAATCTCC
ATTACAGAAGGTATAGAGCGGGGCATCGTTGACAGCATCACGGGTGAGAGGCTTCTGGAGGCTCAGGCCTGCACA
GGTGGCATCATCCACCAACCACGGGCCAGAAGCTGTCACTTCAGGACGCAGTCTCCAGGGTGTGATTGACCAA
GACATGGCCACCAGGCTGAAGCCTGCTCAGAAAGCCTTCATAGGCTTCGAGGGTGTGAAGGGAAGAAAGAAGATG
TCAGCAGCAGAGGCAGTGAAAGAAAAATGGCTCCCGTATGAGGCTGGCCAGCGCTTCTGAGTTCCAGTACCTC
ACGGGAGGTCTTGTGACCCGGAAGTGCATGGGAGGATAAGCACCGAAGAAGCCATCCGGAAGGGGTTTCATAGAT
GGCCGCGCCGCACAGAGGCTGCAAGACACCAGCAGCTATGCCAAAATCCTGACCTGCCCCAAAACCAAATTA
ATATCCTATAAGGATGCCATAAATCGCTCCATGGTAGAAGATATCACTGGGCTGCGCCTTCTGGAAGCCGCCTCC
GTGTCGTCCAAGGGCTTACCCAGCCCTTACAACATGTCTTCGGCTCCGGGTCCCGCTCCGGCTCCCGCTCGGGA
TCTCGCTCCGGATCTCGCTCCGGGTCCCGCAGTGGGTCCCGGAGAGGAAGCTTTGACGCCACAGGGAATTCTTCC
TACTCTTATTCTACTCATTAGCAGTAGTTCTATTGGGCACTAGTAGTCAGTTGGGAGTGGTTGCTATACCTTG
ACTTCATTTATATGAATTTCCACTTTATTAAATAATAGAAAAGAAAATCCCGGTGCTTGCACTAGAGTGATAGGA
CATTCTATGCTTACAGAAAATATAGCCATGATTGAAATCAAATAGTAAAGGCTGTTCTGGCTTTTTATCTTCTTA
GCTCATCTTAAATAAGCAGTACACTTGGATGCAGTGCCTCTGAAGTGCTAATCAGTTGTAACAATAGCACAAATC
GAACCTAGGATTTGTTTCTTCTTCTGTGTTTCGATTTTTGATCAATTCTTTAATTTTGAAGCCTATAATACA
GTTTTCTATTCTTGGAGATAAAAATTAAATGGATCACTGATATTTTAGTCATTCTGCTTCTCATCTAAATATTTT
CATATTCTGTATTAGGAGAAAATTACCCTCCAGCACCAGCCCCCTCTCAAACCCCAACCCAAAACCAAGCAT
TTTGGAATGAGTCTCCTTTAGTTTCAGAGTGTGGATTGTATAACCCATATACTCTTCGATGTACTGTTTGGTTT
GGTATTAATTTGACTGTGCATGACAGCGCAATCTTTTCTTTGGTCAAAGTTTTCTGTTTATTTTGCTTGTCATA
TTCGATGTACTTTAAGGTGTCTTTATGAAGTTTGCTATTCTGGCAATAAACTTTTAGACTTTT

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FIGURE 2045

TCCAAGAAGAGGAAGTTTGTCACTGATGGCATCTTCTAAGCTGAAATGAATGAGTTTCTTACTCAGGAGCTGGCT
GAAGATGGCTACTCTGGAGTTGAGATGCGAGTTACACCAACCAGGACAGAAATCATTGTCTTAGCCACCAGAACA
CAGAATGTTCTTGGTGAGAAGGGCCGGCGGATTTCGGGAACTGACTGCTGTAGTTCAGAAGAGGTTTGGCTCTCCA
GAGGGCAGTGTAGAGCTTTATGCTGAAGAGGTGGCCACTAGGGGTCTGTGTGCCATTGCCCAGGCAGAGTCTCTG
CCTTACAAACTCCTAGGAGGGCTTGCTGTGCGGAGGGCCTGCTATGGTGTGTGCGGGTCATCATGGAAACTGGG
GCCAAAGGCTGTGAGGTCGTGGTGTCTGGGAAACTCTGAGGACAGAGAGCTAAATCCATGAAGTTTGTGGACGGC
CTGATGATCCACAGCAGAGACCCCTGTAACTACTACGTTGACACTGCTGTGCGCCATGTGTTGCTCAGACAGAGT
GTGCTGGGCATCAAGGTGAAGATCATGCTGCCCTGGGACCCAAAGATGAGATAACTGCCCACCACCCCATCTCA
GAACAGAAGGGTGGGA

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FIGURE 2046

MNEFLTQELAEDGYSGVEMRVTPTRTEIIVLATRTQNVLGEKGRRIRELTAVVQKRFGSPEGSVELYAEVATRG
LCAIAQAESLPYKLLGGLAVRRACYGVSRLFIMETGAKGCEVVVSGKL

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FIGURE 2047

ATGACCAGGTTTCATCATCGCCTCTCTCCTCCCCTCTACCTTTCTCCCTGGTTTCCATAGAGCAGAAATCTGGGTC
AAGGTGGAGTGCATTGGATCAAGAGTTGCTATGATTGGGAAAAGCTCTGCAGGATAAGTCGAATAAAATCAGAC
CTTGCAAGAACTCAATCTGGCCCCCTGGGAACTCTCCGGTGTGGAGCTGGAGGAAAAACCAGTACAGTACTCTCTC
AGGAAAACAAGCTCAGAGGCGGAATCAACAAGACAGCTGACGAACACATCCTCTTCAAGAGAGGCCAGGGTCTCA
AGCTCAAGTGGCCAAGGCAAGACGGGTCAAAGTCAGAGTGGTGGTCACAGTCCTGGAGGTGGCAAGAAGGATGAC
AAGGACAAGAAAAAGAAATATGAACCTCCTGTACCAACTGGAGTGGGGAAAAAGAAGAAAAACAAAAGGATCAGAT
GTGGCCAGCAAACTGCCACTGGAATCGGGAACAAATGGAACCATAGAGAAAAAGCAAGAGGAGGAAAGATCAAA
GGTGGACGATCTGAGGGGACCCCGATGTCAGTAGGAACCTTGAAGAGATCAATGACAGTCATGCCATCGTGTCT
ACATCTGTGGGCTCAGGACACTACGCCAACATTCTTTTCAATTTGTAGACAAGGATCTGCTGGCAACTGGCTGCTCA
GTCCTGCTCAATCACAAGGTGCATGCCATGAGAGGGGTGCTGATGGATGACGTGGATCCCCCTGGTCACAGTGATG
AAGGTGGAAAAGGTCCCCCAGGAGACCTATGCCAATACTGGGAGGTTGGATAATCAAATTCAGGAAATTAAGGAA
TCTGTGGAGCTTCTCTCACCCATGCTGAACATTATGAAGAGATGGGTATAAAGCCTCCTAAGGGGGTCAATCTC
TATGGTCCACCTGGCATAGTTAAACCTTGCTAGCCAAAGCGGTAGCAAAACCAACCTCAGCCACTTTCTTGAAA
GTGGTTGGCTCTGAACCTTATTCAGAAGTACCTAGGTGATGGGCCCAAACCTGTACGGGAATTGTTTCAAGTTGCT
GGAGAACATGCACCATCCATCGTGTCTTACTGATGAAACTGACGCCATTGGGACAAAAAGATATGACTCAAATTCT
GGTGAAGCTGGTCTGATGGCCTTAAGAGAACGTAGAATGAAAGCAACAAATGAAGACTTCAAAAAATCTAAAGAA
AATGTTCTTTATAAGAAACAGGAAGGCACCCCTGAGGGGCTGTCTCTCTAG

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FIGURE 2048

MSVGTLEEINDSHAIVSTSVGSGHYANILSFVDKDLLATGCSVLLNHKVHAMRGVLMDDVDPLVTVMKVEKVPQE
TYANTGRLDNQIQEIKESVELPLTHAEHYEEMGIKPPKGVILYGPPGIVKILLAKAVANQTSATFLKVVGSELIQ
KYLGDGPKLVRELFQVAGEHAPSIVFTDETD AIGTKRYDSNSGEAGLMALRERRMKATNEDFKKSKENVLYKKQE
GTPEGLSL

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FIGURE 2049

GGGGGGCTCGGGCTGGGGGGCGGGCCTGTGCCGGCCGCCCCACCCTCCTTGCCATAAAAGCCGGAGCCCGCGGGGC
CGGCGCTCTCAGCCCGTCGGTTCCCGAGCGCCTTCCCGGTGACCCCGCAGTGGGTGTGTGAGGGGAGGACGGACA
GACCCAGACGCCCGCGGACCAGGAGGACGCTGACGAGGCACCATGCGTGAGATCGTGACATCCAGGCGGGCCAG
TGCGGCAACCAGATCGGCGCCAAGTTTGGGAGGTTCATCAGTGATGAGCATGGGATTGACCCCACTGGCAGTTAC
CATGGAGACAGTGATTTGCAGCTGGAGAGAATCAATGTTTACTACAATGAAGCCACTGGTAACAAATATGTTCCCT
CGGGCCATCCTCGTGGATCTGGAGCCAGGCACGATGGATTTCGGTTAGGTCTGGACCATTTCGGCCAGATCTTCAGA
CCAGACAATTTCTGTTTTGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGCCACTACACAGAGGGAGCCGAG
CTGGTCGACTCGGTCTGGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGTCTCCAGGGCTTCCAGCTGACC
CACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAGATCCGGGAAGAGTACCCAGAC
CGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTGAGACACGGTGGTGGAGCCCTACAACGCCACC
CTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTGCATTGACAACGAGGCCCTGTATGACATCTGC
TTCCGCACCCTGAAGCTGACCACCCCACTACGGGGACCTCAACCACCTGGTGTGGGCCACCATGAGCGGGGTC
ACCACCTGCCTGCGCTTCCCGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCGGTGAACATGGTGCCCTTCCCT
CGCTGCACTTCTTCATGCCCGGCTTCGCGCCCTGACCAGCCGGGGCAGCCAGCAGTACCGGGCGCTCACGGTG
CCCAGCTCACCCAGCAGATGTTGACTCCAAGAATGATGGCCGCCTGCGACCCGCGCCACGGCCGCTACCTG
ACGGTGGCTGCCATCTTCCGGGGCCGCGATGTCCATGAAGGAGGTGGACGAGCAGATGCTCAACGTGCAGAACAAG
AACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAGACGGCCGTGTGCGACATCCCGCCCCGCGGCCTG
AAGATGTGGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAGCGCATCTCCGAGCAGTTCACG
GCCATGTTCCGGCGCAAGGCCTTCTGCACTGGTACACGGGCGAGGGCATGGACGAGATGGAGTTCACCGAGGCC
GAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACGGCCGACGAACAAGGGGAGTTC
GAGGAGGAGGAGGGCGAGGACGAGGCGTAGATGCCCCCGCAGACGGGTAGGGAAAGCGGAGGAGGAAAGCGAG
GGGTGGGGGGCTTCCCGGGACGATAACCTGGCAGTGGAAAGAAAGCATGGTCTACTTTAGGTGTGCGCTGG
GTCTCTGGTGCTCTTCACTGTTGCCGTGCACTTTTTTTTTCTTTTTTGTAAATATTGATGACATCAATGTAACAT
TTGAGATATTTCTGAATTACTGTTGTAATGGCTAAAATCACATAAACGTTTGTGTCGG

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FIGURE 2050

GCCCGCCGGTCCACGCCGCGCACCGCTCCGAGGGCCAGCGCCACCCGCTCCGCAGCCGGCACC**ATCGCGGAGATC**
GTGCACATCCAGGCGGGCCAGTGCGGCAACCAGATCGGCGCCAAGTTTTGGGAGGTCATCAGCGATGAGCATGGG
ATCGACCCACAGGCAGTTACCATGGAGACAGTGACTTGCAGCTGGAGAGAATCAACGTGTACTACAATGAGGCT
GCTGGTAACAAATATGTACCTCGGGCCATCCTGGTGGATCTGGAGCCTGGCACCATGGACTCTGTCAGGTCTGGA
CCCTTCGGCCAGATCTTCAGACCAGACAACCTTCGTGTTCCGGCCAGAGTGGAGCCGGGAATAACTGGGCCAAGGGC
CACTACACAGAGGGAGCCGAGCTGGTCGACTCGGTCTTGATGTGGTGAGGAAGGAGTCAGAGAGCTGTGACTGT
CTCCAGGGCTTCCAGCTGACCCACTCTCTGGGGGGCGGCACGGGGTCCGGGATGGGCACCCTGCTCATCAGCAAG
ATCCGGGAAGAGTACCCAGACCGCATCATGAACACCTTCAGCGTCATGCCCTCACCCAAGGTGTCAGACACGGTG
GTGGAGCCCTACAACGCCACCCTCTCGGTCCACCAGCTGGTGGAAAACACAGATGAAACCTACTCCATTGATAAC
GAGGCCCTGTATGACATCTGCTTCCGCACCCTGAAGCTGACCACCCACCTACGGGGACCTCAACCACCTGGTG
TCGGCCACCATGAGCGGGGTCACCACCTGCCTGEGCTTCCGGGGCCAGCTGAACGCAGACCTGCGCAAGCTGGCG
GTGAACATGGTGCCCTTCCCTCGCCTGCACTTCTTCATGCCCGGCTTCGCGCCCTGACCAGCCGGGGCAGCCAG
CAGTACCGGGCGCTCACGGTGCCCGAGCTCACCCAGCAGATGTTGCACTCCAAGAACATGATGGCCGCTGCGAC
CCGCGCCACGGCCGCTACCTGACGGTGGCTGCCATCTTCCGGGGCCGATGTCCATGAAGGAGGTGGACGAGCAG
ATGCTCAACGTGCAGAACAGAACAGCAGCTACTTCGTGGAGTGGATCCCCAACACGTGAAGACGGCCGTGTGC
GACATCCCGCCCCGCGGCTGAAGATGTCGGCCACCTTCATCGGCAACAGCACGGCCATCCAGGAGCTGTTCAAG
CGCATCTCCGAGCAGTTCACGGCCATGTTCCGGCGCAAGGCCTTCCTGCACTGGTACACGGGCGAGGGCATGGAC
GAGATGGAGTTCACCGAGGCCGAGAGCAACATGAACGACCTGGTGTCCGAGTACCAGCAGTACCAGGACGCCACG
GCCGACGAACAAGGGGAGTTCGAGGAGGAGGAGGGCGAGGACGAGGCT**TAAAAA**CTTCTCAGATCAATCGTGCAT
CCTTAGTGAACCTTCTGTTGCTCAAGCATGGTCTTTCTACTTGTAACCTATGGTGCTCAGTTTTGCCTCTGTTA
GAAATTCACACTGTTGATGTAATGATGTGGAACCTCTCTAAAAATTACAGTATTGTCTGTGAAGGTATCTATACT
AATAAAAAAGCATGTGTAG

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FIGURE 2051

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGSYHGDSDLQLERINVYYNEAAGNKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKESESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVMPSPKVSDTVVEPYNATLSVHQLVENTIDETYSIDNEALYDICFRTLKLTPTYGDL
NHLVSATMSGVTTCLRFPQQLNADLRKLAVNMVFPRLHFFMPGFAPLTSRGSQQYRALTVPELTQQMFDSKNMM
AACDPRHGRYLTVAAlFRGRMSMKEVDEQMLNVQNKNSSYFVEWIPNNVKTAVCDIPRGLKMSATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATADEQGEFEEEEGEDEA

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FIGURE 2052

CCGCGTTCTGCGGGACCGCGCCTGCCCTCTGCCGCGCTCCGCCCTGCCGCCGACCGCACGCCCCGCCGCGGGAC
ATGGCACACGCACCGGCACGCTGCCCCAGCGCCCGGGGCTCCGGGGACGGCGAGATGGGCAAGCCCCAGGAACGTG
GCGCTCATCACCGGTATCACAGGCCAGGATGGTTCCTACCTGGCTGAGTTCTCTGCTGGAGAAAGGCTATGAGGTG
CATGGAATTGTACGGCGGTCCAGTTCATTTAATACGGGTGCAATTGAGCATCTGTATAAGAATCCCCAGGCTCAC
ATTGAAGGAAACATGAAGTTGCACTATGGCGATCTCACTGACAGTACCTGCCTTGTGAAGATCATTAAATGAAGTA
AAGCCACAGAGATCTACAACCTTGGAGCCCAGAGCCACGTCAAAATTTCTTTGACCTCGCTGAGTACACTGCG
GACGTTGACGGAGTTGGCACTCTACGACTTCTAGATGCAGTTAAGACTTGTGGCCTTATCAACTCTGTGAAGTTC
TACCAAGCCTCAACAAGTGAACCTTTATGGGAAAGTGCAAGAAATACCCCAAGAGAGACCACCCCTTTCTATCCC
CGGTCACCCCTATGGGGCAGCAAACTCTATGCCTATTGGATTGTGGTGAACCTCCGTGAGGCGTATAATCTCTTT
GCAGTGAACGGCATTCTCTTCAATCATGAGAGTCCCAGAAGAGGAGCTAATTCGTTACTCGAAAAATTAGCCGG
TCAGTAGCTAAGATTTACCTTGGACAACCTGGAATGTTTCAGTTTGGGAAATCTGGATGCCAAACGAGATTGGGGC
CATGCCAAGGACTATGTGGAGGCTATGTGGTTGATGTTGCAGAATGATGAGCCGGAGGACTTCGTTATAGCTACT
GGGGAGGTCCATAGTGTCCGGGAATTTGTTCGAGAAATCATTCTTGACATTGGAAAAACCATTGTGTGGGAAGGA
AAGAATGAAAATGAAGTGGGCAGATGTAAAGAGACCGGCAAAGTTCACGTGACTGTGGATCTCAAGTACTACCGG
CCAACTGAAGTGGACTTTCTGCAGGGCGACTGCACCAAAGCGAAACAGAAGCTGAACTGGAAGCCCCGGGTGCGT
TTCGATGAGCTGGTGAGGGAGATGGTGCACGCCGACGTGGAGCTCATGAGGACAAACCCCAATGCCTGAGCAGCG
CCTCGAGCCCCGGCCCCCTCCGGCTACAATCCCCGCAGAGTCTCCGGTGCAGACGCGCTGCGGGGATGGGGAG
CGGCGTGCCAATCTGCGGGTCCCCTGCGGCCCTGCTGCCGCTGCGCTGTCCCGGCCGCAAGAGCGGGGCCGCC
CGCCGAGGTTTGTAGCAGCCGGGATGTGACCCTCCAGGGTTTGGGTGCGCTTTGCGTTTGTGCAAGCCTCCTCTGA
ATGGCTTTGTGAAATCAAGATGTTTTAATCACATTCACCTTTACTTGAAATTATGTTGTTACACAACAAATTGTGG
GGCCTTCAAAATTGTTTTTCC

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FIGURE 2053

MAHAPARCP SARGSGDGEMGKPRNVALITGITGQDGSYLAEFLLKGYEVHGIVRRSSSFNTGRIEHLKYNPQAH
IEGNMKLHYGDLTDSTCLVKIINEVKPTEIYNLGAQSHVKISFDLAEYTADV DGVGTLRLLDVAVKTCGLINSVKF
YQASTSELYGKVQEIPQKETTPFYPRSPYGAAKLYAYWIVVNFREAYNLFAVNGILFNHESPRRGANFVTRKISR
SVAKIYLGQLECFSLGNLDAKRDWGHAKDYVEAMWMLQNDPEDEFVIATGEVHSVREFVEKSFLHIGKTIVWEG
KNENEVGRCKETGKVHVTVDLKYYRPTEVDFLQGDCTKAKQKLNWKPRVAFDELVREMVHADVELMRTNPNA

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FIGURE 2054A

CGCCGCGGCCCCGGTACCAACGGGTGGTCTCGCCGAGGGAGCTGTCGTGCCTCGTGGTCCCGGGACTGCAGTGGTG
TGCGCTCTCGGCGCGTGGCGCTAGGCATGGCGATGGATCAAGTAAACGCGCTGTGCGAGCAGCTGGTGAAAGCGG
TGACGGTCATGATGGACCCCAACTCCACCCAGCGCTACCGGCTGGAAGCCCTCAAGTTTGTGAGGAGTTTAAAG
AAAAGTGTCTATCTGTGTCCCTGTGGCTTGAGGTTGGCTGAGAAAACACAAGTTGCCATCGTCAGACATTTTG
GCCTTCAGATCCTGGAACACGTTGTCAAGTTTCGGTGGAACGGCATGTCTCGATTGGAGAAGGTGTATCTGAAGA
ACAGTGTGATGGAGCTGATTGCAATGGAAACATTGAACATTTTGAAGAGGAGAACCATATTAAAGATGCTCTGT
CTCGAATTGTAGTGGAAATGATCAAGCGAGAGTGGCCACAGCATTGGCCTGACATGCTAATAGAATTGGACACTC
TTTCCAAACAAGGGGAAACACAGACAGAATTGGTGATGTTTATCCTTTTGGCGACTGGCAGAGGATGTAGTGAATT
TTCAGACACTTCCCCCTCAAAGAAGAAGGGACATCCAGCAAACATTAACCCAGAACATGGAAGGATCTTCAGTT
TTCTGCTTAACACACTTCAAGAAAATGTAAACAAGTATCAGCAAGTGAAGACAGATACTTCTCAGGAGTCAAAGG
CGCAAGCAAACCTGTGAGTAGGAGTTGCAGCACTGAATACTCTAGCAGGCTATATTGACTGGGTGTCTATGAGTC
ACATCACTGCTGAAAACGTAAACTCCTGGAGATACTGTGTTTGTGTTGAATGAACAGGAACCTCAGTTGGGAG
CCGTGAGTGTCTTCTCATTGCAGTCAGCAGAAAAGGCAAGTTGGAAGACCGGAAGCCCTTGATGGTCTTATTTG
GAGATGTTGCCATGCATTATATACTCTCCGCCGCACAGACTGCTGATGGAGGAGGTTTGGTAGAAAAACACTACG
TCTTTCTGAAGAGGCTCTGTCAAGGTGTTGTGTGCGCTGGGCAATCAGCTGTGTGCATTGCTGGGTGCAGATTCTG
ATGTAGAAACACCATCAAACCTTTGGAATAACCTGGAATCTTTCTTGCTTTTCAACCCATCCAAGTCAGTTTC
TACGCTCTTCAACTCAGATGACTTGGGGAGCCCTCTTCAGGCATGAAATCCTGTCCTGATCCTTTGCTATTAG
CAATAATACCAAAATATCTTCGTGCTCCATGACTAACTTGGTCAAGATGGGCTTTCCTTCTAAAACAGACAGCC
CTAGCTGTGAATATTCTCGGTTTGATTTTGATAGCGATGAGGACTTCAATGCTTCTTCAACTCCTCCCGAGCAC
AACAAGGAGAGGTGATGAGGTTGGCATGTCGTTTGGATCCCAAACTAGCTTCCAGATGGCTGGGGAGTGGCTAA
AGTATCAACTATCAACTTTTCTTGATGCTGGTTCTGTGAATCTTGTTCTGCAGTTGGAACGGAGAAGGAAGCC
TCTGTTCCGTCTTCTCACCTTCATTGCTGAGTGGGAAGCCATGACTCTTTTTTGGAAAGTGTATCACCCAGA
TGTTTCGAACACTAAATAGAGAAGAAATTCCTGTTAATGATGGAATAGAGCTATTGCAGATGGTCTGAACTTTG
ATACCAAGGATCCCCATCCTGTCTGCGTCTTACTAATGTCTCTGCACTCTTCCATTTGTCACCTACAGAC
CAGAGTTCCTGCCCCAGGTCTTCTCTAAGCTATTTTCATCTGTCACTTTTGAACCTGTTGAAGAAAGTAAGGCC
CCAGAACCCGGGCAGTGAGGAATGTGAGGAGGCATGCTTGTCTCCATCATCAAGATGTGTCGTGACTACCCCC
AGCTTGCTGCTGCCCAATTTTGACATGCTTTATAACCATGTGAAGCAACTCCTCTCCAATGAGTACTCCTGACAC
AAATGGAGAAGTGTGCCCTCATGGAAGCCCTGGTTCTCATTAGCAACCAATTAAGAAGTACGAGCGTCAGAAGG
TGTTCTTAGAGGAGCTGATGGCACCAGTGGCCAGCATCTGGCTTCTCAAGACATGCACAGAGTGTGTGAGATG
TTGATGCTTTTCATGCGTATGTGGGTACAGATCAGAAGAGCTGTGACCCAGGCTGGAGGATCCGTGTGGCTTAA
ACCGTGCACGAATGAGCTTTTGTGTATACAGCATCTTGGGTGTGGTGAAACGAACTTGCTGGCCCACTGACCTAG
AAGAGGCCAAAGCTGGGGGATTTGTGGTGGTTTATACATCCAGTGGAAATCCAATCTTCCGTAAACCCCTGCACAG
AGCAGATTCTGAAACTTCTTGACAATTTGCTTGCCTTATAAGAACCACAAATACATTATATGACCCAGAAATGC
TAGCCAAAATGGCAGAGCCCTTTCACCAAGGCTCTGGATATGCTTGACGCGGAAAAATCTGCTATATTAGGATTAC
CTCAACCTCTCTTGGAACCTCAATGACTCTCCTGTCTTCAAACCGTCTTGGAAGAATGCAGCGTTTCTTCTCTA
CCCTCTATGAAAACGTGTTTTCATATCCTAGGGAAGGCAGGCCCTTCCATGCAGCAAGACTTCTATACTGTGGAGG
ACCTTGCTACCCAGCTTCTCAGCTCAGCCTTTGTCAACTTGAACAATATTCTGACTACCGACTCAGACCCATGC
TTCGGGTCTTTGTAAAGCCTCTGGTGTCTTCTGTCCCCCAGAGCACTATGAAGCCCTGGTATCCCCCATCCTCG
GACCTCTTTTTACCTACCTCCATATGAGGCTTTCTCAGAAATGGCAAGTTATCAACCAAAGGAGCCTGCTGTGTG
GAGAAGATGAGGCTGCAGATGAAAACCCAGAGTCTCAAGAGATGCTGGAGGAGCAACTGGTGAGGATGTTAACCC
GAGAAGTCATGGACCTAATCACGGTTTGTGTGTTTCAAAGAAGGGTGCTGACCACAGTAGTGTCCCCCAGCAG
ATGGAGACGATGAAGAAATGATGGCCACAGAGGTACCCCTCAGCTATGGCAGAGCTTACAGACCTGGGCAAT
GTCTGATGAAGCATGAGGATGTTTGTACAGCGCTATTAATTACAGCCTTCAATTCCCTGGCCTGGAAAGATACTC
TGCTCTGCCAGAGGACAACCTCACAGCTCTGCTGGCCTCTCCTCAAACAAGTGTGTGAGGGACACTGCTCGCAG
ATGCAGTTACGTGGCTTTTACCAGTGTGCTGAAAGGCTTACAGATGCACGGGCAGCACGAGGGTGCATGGCTT
CCCTGGTCCATCTGGCCTTCCAGATATACGAGGCACTGCCCCAGGTACCTGGAGATAAGAGCTGTAATGGAGC
AAATCCCTGAAATACAGAAGGACTACTGGACCAGTTTGACTGCAAGCTTTTAAACCCCTCCCTGCAGAAAGTGG
CTGACAAGCGCCGAAAGGACCAATTCAAACGCCTCATTGCTGGTTGCATTGGGAAACCTTGGGAGAGCAGTTCC

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FIGURE 2054B

GAAAAGAAAGTTCACATTAAGAATCTTCCCTCACTTTTCAAAAAACAAAGCCAATGCTGGAGACGGAGGTGCTGG
ACAATGATGGGGGTGGCCTGGCCACCATCTTTGAACCTGAATCAAGCTTTTGGGCATCCTTCCTCGGCCTTTCT
TGTCATCTCTTCTTTCCCTTTGTAGCCGATCTCTAGGCCCTTCTTGCACTGCCACCTCACTTTCCACCACTGTCA
GCCTGGAAAGAGATCCAGGTCTGGAGCTGGAGAGAACAGGCCCTGTGCAGGACCAGAAGTAATTATACTAAAGTA
TCAAGAAAGGGAGTTAGGGCTTAAACTATTCTGTCTAGATGTCCCAGATAGTTCCCATTCTACTTGGAGATTGG
CTTTTCCAAGAAAAGCTAGAGCAGAGCAGCCCTTCTCCCAAGCCCTCCCACCCCGTGCAGCCACATACCTGT
ACAGAATGGTAACCTAAGGGTGCTGTGCCAACCTGCGACTAGCAAGGCTCGCAGCAAGAGCACAGCCCTCAACT
ACTTGTGCCAGAGTTTCTCTTGGACCACTCCAACCTCCCACTGAGCCCTTTTGCTGCTGGGCTGGCAGGAACTTT
CCCCACTCCCTAAGGGGCATGTCTGGGTTAGGTGCTAAGTGCTGAAGAGAACTTGGTCAGTTCTCTCAACTTTGC
TTTGGGCAAGAATCTGGTCACCTGATGGGATCCATGGTACAGGCTACTGCTAAACTTGGCACAGTATCAAGTATA
GTACCTCCAAGGACCAGGGCTGGGCAGTCTTTAGTGCTAACATCCCCTTTAGAGTTCACACATCTTGCCCTTCCA
TGAATGACCCCTCAGTCTGGCCTCCCCAGCCTCAAGGTCCACTCAGGCACAAGAGCCACAGTACCCTAGATAGTG
TCACATGACACCGTTGTATCCAAGGATAATACAGACCAACTAGGCTACATCTGTGATGAGCAGCTAGCAAAGCC
GCTGGTCTTCTCCTAGGACTAAGTCCAGGTGCCTTCCACAATCTCATGGTCTTTCAGGTCCCTGGTTACTTTTCT
CAAAGGCCATTTCCAAAAGAATACATGCCTTCACATCACAACCTGTACTGTGAGTCCATTCTAGAGGTCACTGAA
AGGCCCTGTAAAGAGAGGACATGGATACGGGACCTGGCCCTGAGGTTATTACTGGCCGTAAGGCAGAGTTAATCC
ATACAGAAACCAGTGTGTCCATGTGCTCTGCACAAAAACAGACCTGTTGTCCATCCAGTCCACTGACAAGAGGGT
TTCCCCGAGAGCCGAAGTGGACTGAAGCTACAGTTTTTAGCTGGTGCGGGCCACAGGCAGGGTCAGATTGAGAAG
AAGCAAAGCTGGGGAAGCAGAAGTTGGGAGTCTTGTGTTGCTCCCTCTTCCTGTGTGGTGCTCTGGGTTTCTGTG
GATCGTGAAGGCGATCTCAAGAGTGTTCCTCCAAACCTGATAGCTGCCTATTCTGTCTGGTTGGGGCTGTGG
AGGATGTAGTTGTATTTATTGCATTGTAATATTTTAAACATCCTGTGACTTCATGCTAGAAATTTCTATTGTTT
ATAGAACTTTTTGTAGAAACATTAACCTCTAAAGCACATCTGCATGTCAGTAAAAATCTCAGTTTCGTACAG

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FIGURE 2055

MAMDQVNALCEQLVKAVTMMDPNSTQRYRLEALKFCEEFEKCPICVPCGLRLAECTQVAIVRHFGQLILEHVV
KFRWNGMSRLEKVYLKNSVMELIANGTLNILEEENHIKDALSRIVVEMIKREWPQHWPDMLELDTLKQGETQT
ELVMFILLRLAEDVVTFTLPPQRRRDIQOTLTQNMERIFSFLNLTQENVNKYQQVKTDTSQESKAQANCRVGV
AALNTLAGYIDWVSMHITAENCKLLEILCLLLNEQELQLGAAECLLIASRKGLKLEDRKPLMVLFQDVAMHYIL
SAAQTADGGGLVEKHVFLKRLCQVLCALGNQLCALLGADSDVETPSNFGKYLESFLAFTTHPSQFLRSSTQMTW
GALFRHEILSRDPLLLAIIPKYLRASMTNLVKMGFPSKTDSPSCEYSRFDSDSDFNFAFNSSRAQQGEVMRLA
CRLDPKTSFQMAGEWLKYQLSTFLDAGSVNSCSAVGTGEGSLCSVFSFVQWEAMTLFLESVITQMFRTL NREE
IPVNDGIELLQMVLFNFDTKDPLILSCVLTNVSALEFPFVYRPEFLPQVFSKLFSSVTFETVEESKAPRTRAVRNV
RRHACSSIIKMCRDYPQLVLPNFDMLYNHVKQLLSNELLLTQMEKCALMEALVLISNQFKNYERQKVFLEELMAP
VASIWLSQDMHRVLSVDVAFIAYVGTQKSCDPGLEDPGLNRARMSFCVYSILGVVKRTCWPTDLEEAKAGGFV
VGYTSSGNPIFRNPCTEQILKLLDNLLALIRTHNTLYAPEMLAKMAEPFTKALDMLDAKSAILGLPQPLLELND
SPVFKTVLERMQRFFSTLYENCFHILGKAGPSMQQDFYTVEDLATQLLSSAFVNLNNIPDYRLRPMHLVFKPLV
LFCPPEHYEALVSPILGPLFTYLHMRLSQKWQVINQRSLLCGEDEAADENPESQEMLEEQLVRMLTREVMDLITV
CCVSKKGADHSSAPPADGDDEEMMATEVTSPSAMAELTDLGKCLMKHEDVCTALLITAFNSLAWKDTLSCQRTTSQ
LCWPLLKQVLSGTLADAVTWLFTSVLKGLQMHGQHDGCMASLVHLAFQIYEALRPRYLEIRAVMEQIPEIQKDS
LDQFDCKLLNPSLQKVADKRRKDQFKRLIAGCIGKPLGEQFRKEVHIKNLPSLFKKTTPMLETEVLDNDGGGLAT
IFEP

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FIGURE 2056

AAAACACCAAATGGCGGATGACGCCGGTGACAGTGGGGGGGCGCTGGAGGCCCTGGTGGCCCTGGGATGGGGAACCG
CGGTGGCTTCCGCAGAGGTTTTCGCCAGTGGCATCCGGGGCCGGGGTCGCAGCCGTGGACCGGGCCGGGGCTGAGG
CCGCGGAGCTCGCGGAGGCAAGGCCAAAGATAAGGAGTGGATGCCCCTCACCAGCTGGGCGCTTGGTCAAGGA
CATGAAGATCAAGTCCCTGGAGGAGATCTATCTCTTCTCCCTGCCCATTAAAGGAATCAGAGATCATTGACTTTTT
CCTGGGGGCTCTCTCAAGGATGAGGTTTTGAAGATTATGCCAGTGCAGAAGCAGACCCGTGCTGGCCAGCGCAC
CAGGTTCAAGGCGTTTGTGTCTATCGGGGACTACAGTGGCCACGTCGGTCTGGGTGTTAAGTGCTCCAAGGAGGT
GGCCACCGCCACCCGTGGGGCCATCATCTGGCCAAGCTCTCCATTGTCCCCGTGCACAGAGGCTACTAGGGGAA
CAAGATCGGCAAGCCCCACACCGTCCCCTGCAAGGTGACAGGCCGCCGTGGCTCTGTGCTGGTGCGCCTCATCCC
TGCACCCAGGGGCACTGGCATTGTCTCCGCACCTGTGCCCCAAGAAGCTGCTCATGATGGCTGGTATCGATGACTG
CTACACCTCAGCCCAGGGCTGCACTGCCACCCCTGGGCAACTTCGCCAAGGCCACCTTTGATGCCATTTCTAAGAC
CTACAGCTACCTGACCCCCGACCTCTGGAAGGAGACTGTATTTACCAAGTCTCCCTATCAGGAATCACTGACCA
CCTCGTCAAGACCCACACCAGAGTCTCTGTGCAGCAGACCCAGGCTCCAGCTGTGGCTACAACATAGGGTTTTTA
TACAAGAAAAATAAAGTGAATTAAGCGTG

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FIGURE 2057

GGGCTGCGCTCTCCAGCTGTGGCTATGGCCCCAGCCCCGAGATGAGGAGGGAGAGAACTAGGGGGCCCGCAGGCCT
GGGAATTTCCGTCCCCACCAAGTCCGGATGCTCACTCCAAAGTCTCAGCAGGCCCTGAGGGAGGGAGCTGTCA
GCCAGGGAAAACCGAGAACACCATCACCATGACAACCAGTCACCAGCCTCAGGACAGATACAAAGCTGTCTGGCT
TATCTTCTTCATGCTGGGTCTGGGAACGCTGCTCCCGTGGAATTTTTTCATGACGGCCACTCAGTATTTACAAA
CCGCTGGACATGTCCAGAAATGTGTCCTTGGTCACTGCTGAACTGAGCAAGGACGCCAGGCCTCAGCCGCCCC
TGCAGCACCTTGCTGAGCGGAACCTCTCTCAGTGCCATCTTCAACAATGTCATGACCCTATGTGCCATGCTGCC
CCTGCTGTTATTACCTACCTCAACTCCTTCTGTCATCAGAGGATCCCCAGTCCGTACGGATCCTGGGCAGCCT
GGTGGCCATCCTGCTGGTGTCTTCTGATCACTGCCATCCTGGTGAAGGTGCAGCTGGATGCTCTGCCCTTCTTTGT
CATCACCATGATCAAGATCGTGCTCATTAAATTCATTTGGTGCCATCCTGCAGGGCAGCCTGTTTGGTCTGGCTGG
CCTTCTGCTGCCAGCTACACGGCCCCCATCATGAGTGCCAGGGCCTAGCAGGCTTCTTTGCCCTCCGTGGCCAT
GATCTGCGCTATTGCCAGTGGCTCGGAGCTATCAGAAAGTGCCCTTCGGCTACTTTATCACAGCCTGTGCTGTTAT
CATTTTGACCATCATCTGTTACCTGGGCCTGCCCCGCTGGAATTCTACCGCTACTACCAGCAGCTCAAGCTTGA
AGGACCCGGGGAGCAGGAGACCAAGTTGGACCTCATTAGCAAAGGAGAGGCCAAGAGCAGGCAAAGAGGAATC
TGGAGTTTCAGTCTCCAATCTCAGCCCACCAATGAAAGCCACTCTATCAAAGCCATCCTGAAAAATATCTCAGT
CCTGGCTTTCTCTGTCTGCTTCACTTCACTATCACCATTGGGATGTTTCCAGCCGTGACTGTTGAGGTCAAGTC
CAGCATCGCAGGCAGCAGCACCTGGGAACGTTACTTCATTCTGTGTCCTGTTTCTTGACTTTCAATATCTTTGA
CTGGTTGGGCCGGAGCCTCACAGCTGTATTCAATGTGGCCTGGGAAGGACAGCCGCTGGCTGCCAAGCCTGGTGCT
GGCCCGGCTGGTGTGTTGTGCCACTGCTGCTGTGCAACATTAAGCCCCGCGCTACCTGACTGTGGTCTTCGA
GCACGATGCCTGGTTTCACTTCTTCAATGGCTGCTTTCCTTCTCCAACGGCTACCTCGCCAGCCTCTGCATGTG
CTTCGGGCCCAAGAAAGTGAAACCAGCTGAAGCAAAAACCGCAGGAGCCATCATGGCTCCTTCTGTGTCTGGG
TCTGGCACTGGGGGCTGTTTTCTCCTTCTGTTCCGGGCAATTGTGTGACAAAGGATGGACAGAAGGACTGCCTG
CCTCCCTCCCTGTCTGCCCTCCTGCCCTTCTTCTGCCAGGGGTGATCTTGAGTGGTCTGGCGGTTTTTCTTCT
AACTGACTTCTGCTTTCCACGGCGTGTGCTGGGCCCGGATCTCCAGGCCCTGGGGAGGGAGCCTCTGGACGGACA
GTGGGGACATTGTGGGTTTGGGGCTCAGAGTCGAGGGACGGGGTGTAGCCTCGGCATTGCTTGAGTTTCTCCAC
TCTTGGCTCTGACTGATCCCTGCTTGTGTCAGGCCAGTGGAGGCTCTTGGGCTTGAGAACACGTGTGTCTCTGTG
TATGTGTCTGTGTCTGCGTCCGTGTCTGTGTCAGACTGTCTGCCTGTCTTGGGTGGCTAGGAGCTGGGTCTGAC
CGTTGTATGGTTTGACCTGATATACTCCATTCTCCCCTGCGCCTCCTCCTCTGTGTCTCTCCATGTCCCCCTCC
CAACTCCCCATGCCAGTTCTTACCCATCATGCACCCTGTACAGTTGCCACGTTACTGCCTTTTTTAAAAATATA
TTTGACAGAAACCAGGTGCCTTCAGAGGCTCTCTGATTTAAATAAACCTTCTTGTTTTTT

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FIGURE 2058

GC GCGGCACTTCCGCTGGCCGCTGGCTCGCTGGCCGCTCCTGGAGGCGGCGGGAGCGCAGGGGGCGCGCGG
CCGGGGACTCGCATTCCTCCGTTCCCTCCACCCACGCGGCTGGACCATGGACGCCAGATGGTGGGCAGTGG
TGGTGCTGGCTGCGTTCCCTCCCTAGGGGCAGGTGGGGAGACTCCCGAAGCCCTCCGGAGTCATGGACCCAGC
TATGGTTCTTCCGATTTGTGGTGAATGCTGCTGGCTATGCCAGCTTTATGGTACCTGGCTACCTCATGGTGCAGT
ACTTCAGGCGGAAGAACTACCTGGAGACCGGTAGGGGCCCTCTGCTTTCCCTGGTGAAAGCTTGTGTGTTTGGCA
ATGAGCCCAAGGCCTCTGATGAGGTTCCCTGGCGCCCCGAACAGAGGCGGCAGAGACCACCCGATGTGGCAGG
CCCTGAAGCTGCTCTTCTGTGCCACAGGGCTCCAGGTGTCTTATCTGACTTGGGGTGTGCTGCAGGAAAGAGTGA
TGACCCGCAGCTATGGGGCCACAGCCACATCACGGGTGAGCGCTTTACGGACTCGCAGTTCCTGGTGCTAATGA
ACCGAGTGCTGGCACTGATTGTGGCTGGCCTCTCCTGTGTTCTCTGCAAGCAGCCCCGGCATGGGGCACCCATGT
ACCGGTACTCCTTTGCCAGCCTGTCCAATGTGCTTAGCAGCTGGTGCCAATACGAAGCTCTTAAGTTCGTACAGCT
TCCCAACCCAGGTGCTGGCCAAGGCCTCTAAGGTGATCCCTGTGCTGATGGGAAAGCTTGTGTCTCGGCGCA
GCTACGAACACTGGGAGTACCTGACAGCCACCCTCATCTCCATTGGGGTCAGCATGTTTCTGCTATCCAGCGGAC
CAGAGCCCCGAGCTCCCCAGCCACCACACTCTCAGGCCCTCATCTTACTGGCAGGTTATATTGCTTTTGACAGCT
TCACCTCAAACCTGGCAGGATGCCCTGTTTGCCTATAAGATGTCATCGGTGCAGATGATGTTTGGGGTCAATTTCT
TCTCCTGCCTCTTCACAGTGGGCTCACTGCTAGAACAGGGGGCCCTACTGGAGGGAACCCGCTTCATGGGGCGAC
ACAGTGAGTTTGCTGCCCATGCCCTGCTACTCTCCATCTGCTCCGCATGTGGCCAGCTCTTCATCTTTACACCA
TTGGGCAGTTTGGGGCTGCCGTCTTCACCATCATCATGACCTCCGCCAGGCCTTTGCCATCCTTCTTCTGCC
TTCTCTATGGCCACACTGTCACTGTGGTGGGAGGGCTGGGGGTGGCTGTGGTCTTTGCTGCCCTCCTGCTCAGAG
TCTACGCGCGGGGCCGTCTAAAGCAACGGGGAAAGAAGGCTGTGCCTGTTGAGTCTCCTGTGCAGAAGGTTTGAG
GGTGAAAGGGCCTGAGGGGTGAAGTGAATAGGACCCTCCACCATCCCCTTCTGCTGTAACCTCTGAGGGAGC
TGGCTGAAAGGGCAAATGCAGGTGTTTTCTCAGTATCACAGACCAGCTCTGCAGCAGGGGATTGGGGAGCCAG
GAGGCAGCCTTCCCTTTTGCCTTAAGTCACCCATCTTCCAGTAAGCAGTTTATTCTGAGCCCCGGGGTAGACAG
TCCTCAGTGAGGGGTTTTGGGGAGTTTGGGGTCAAGAGAGCATAGGTAGGTTCCACAGTTACTCTTCCACAAGT
TCCCTTAAGTCTTGCCCTAGCTGTGCTCTGCCACCTTCCAGACTCACTCCCCTCTGCAAATACCTGCATTTCTTA
CCCTGGTGAGAAAAGCACAAAGCGGTGTAGGCTCCAATGCTGCTTTCCAGGAGGGTGAAGATGGTGTGCTGTGCTGA
GGAAAGGGGATGCAGAGCCCTGCCAGCACCACCTCCTATGCTCCTGGATCCCTAGGCTCTGTTCCATGAGC
CTGTTGCAGGTTTTGGTACTTTAGAAATGTAACTTTTGGCTCTATAATTTTATTTTATTAAATTAAATTACTGC

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FIGURE 2059

CAGAATCGGTAGACATTGCGAACCAGGTTATGAAGTGCAAGGCTGCAGTTGCTTGGGAGGCTGGAAAGCCTCTCT
CCATAGAGGAGATAGAGGTGGCACCCCCAAAGGCTCATGAAGTTCGAATCAAGATCATTGCCACTGCGGTTTGCC
ACACCGACGCCTATACCCCTGAGGGGAGCTGATCCTGAGGGTTGTTTTCCAGTGATCTTGGGACATGAAGGTGCCG
GAATTGAGGAAAGTGTTGGCGAGGGAGTTACTAAGCTGAAGGCGGGTGACACTGTCATCCCACTTTACATCCCAC
AGTGTGGAGAATGCAAATTTTGTCTATATCCTAAACTAACCTTTGCCAGAAGATAAGAGTCACTCAAGGGAAAG
GATTAATGCCAGATGGTACCAGCAGATTTACTTGCAGGAGGAAAGACAATTTTGCCTTACATGGGAACCAGCACAT
TTTCTGAATACACAGTTGTAGCTGATATCTCTGTTGCTAAATAGATCCTTTAGCACCTTTGGATAAACTCTGCC
TTCTAGGTTGTGGCATTTCAGCTGGTGATGGTGCTGTGTGAACACTGCCAAGGTGGAACCTGGCTCTGTTTGTG
CCGTCTTTGGTCTGGGAGGAGTTGGATTGGCAGTTATCAAGGGCTGTAAAGTGGCTGGTGCATCCCGGATCATTG
GTGTGGACATCAATAAAGATAAAATTTGCAAGGGCCAAAGAGTTTGGAGCCACTGAATGTATTAACCCCTCAGGGTT
TTAGTAAACCCATCCAGGAAGGGCTCATTGAGACGACTGATGGAGGAGTGGACTATTCTTTGAATGTATTGGTA
ATGTGAAGGTCATGAGAGCAGCACTTGAGGCTTATCACAAGGGCTGGGGAGTCAGCGTGGTGGTTGGAGTAGCTG
CTTCAGGTGAAGAAATTGCCACTCGTCCATTCCAGCTGGTAACAGGTGCGACATGGAAAGGAAGTGCCTTTGGAG
GATGGAAGAGTGTAGAAAGTGTCCTCAAGTTGGTGTCTGAATATATGTCCAAAAAATAAAAGTTGATGAATTTG
TGACTCACAATCTGTCTTTTGGTGAAATTAACAAAGCCTTTCAACTGATGCATTCTGGAAAGAGCATTTCGAAGT
TTGTAAAGATTTAATTCAAAAGAGAAAAATAATGTCCAACCTGTCGTGATGTGATGGGAGCAGCTTAACAGGCAG
GGAGAAGCGCCTCCAACTCACAGCCTCGTAGAGCTTCGCAGCTACCCAGAGAATAGTGTTATGAGTGTAAATTC
ATGAATCTCTATAATCAACGACAAGGATAATTCAGTCATGGACCTGTTTTCTGGACGCTCCTCCACATAAATAAT
TGCTAGCTTATTAAGGAATATTTTAACATAATAAAAGTAATTTCTACATTTGTGTAGAAATTGTCTTTGTTTTAT
GCTGTAATCATTGTCTATGGTTTGTCTGCCCATTATCTTCATTCTGTAAGGGAAATGTAAAGGAAGCAGGGCAGTG
GTGGGTGICTGAAACCTCAGAAACATTCTGTTGAAGTTTTAAGGGTCTCAGTCCCGTTGATTGAAGAACAGATCCT
AGCCATCAGTGACAAAGTTAATCAGGAGCCAAGTCTGCTTCTGTGATATTATCTTGAAGGGAGGTACTGTGCCTT
GTTCTGTCCTGTACCCCAAATTCCTAGTATGGCATCTGCCCCCTCAGGGGACACTAAATGTATTATTGAAACAGC
ATTCTGGACTTAAATAGGTGTATGTGTGTGTTGGTTGTGGCTGTACTATTTCTAGTATAGTGAATTACATACTGA
ATATCCAAGTTCTCAGCACCTACTTTTGTCAAATCTTAACATTTTGCCACTTCACATCACATTGCCATTCCTCC
CCTCCAGAGGTAACAATTATCCAAAATTTGATGTTTGTCTATTCTGTGTTGTTGTACTTTCACTGTGTATAACCT
AAACCATCTACTCTTTAGTACTGTTTTATATATTTTAAAGCCTTATACTTGCTCATTCTACAGCTTTTCTTTTTT
TCACTCATTATTGTATAATTATATGTGAAGCTTTCATTCAATTTTAGTACTGTGTAGCAGTATTCAATTACG
CGAACTATCTTAATTCATCTGTCTCCAGTTGAAGGCATGAAGTTGTTGCCAGTTTCTGTATTACAACACTGTAG
TGGAACATCTTCTGCATTGGGCTCACTACATTAGTTACTTAAGATGTGTATCACAGAATAAACACATTTAGCCT
TATAGACATTGCCAAATTTATCTTCAAAGTAAATGTGAGTTTTTGTGAATTACGTGAGTGTAGAATGGTGTTTTA
TTATGAGTTTAGTTTGCATTTCCACAA

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FIGURE 2060

ATGATCAAGGGTGTACACTAGGCTTCCATTACAAGATGAGATCTGTGTATGCTCACTTCCCCATCAACGTCGTT
ATCCAGGAGAATGGGTCTCTTGTTGAAATCCGAAATTTCTTGGGTAAAAAATACATCCGCAGGGTTTGGATGAGA
GCAGGTGTTGTTTGTTCAGTATCTCAAGCCCAGAAAGATGAATTAATCCTTGAAGGAAATGACATTGAGCTTGTT
TCAAATTCAGCGGCTTTGATTCAACAAGCCACAACAGTTAAAAAGAAGGATATCAGGGAATTTTGGATGGTATC
TATGTCTCTGAAAAAGGAACTGGTCAGCAGGCTGATGAATTAA